

SEQUENCE LISTING

<110> Xu, Jiangchun
 Dillon, Davin C.
 Mitcham, Jennifer L.
 Harlocker, Susan L.
 Jiang, Yuqui
 Reed, Steven G.
 Kalos, Michael D.
 Fanger, Gary R.
 Retter, Marc W.
 Stolk, John A.
 Day, Craig H.
 Vedvick, Thomas S.
 Carter, Darrick
 Li, Samuel
 Wang, Aijun
 Skeiky, Yasir A.W.
 Helper, William



<120> COMPOSITIONS AND METHODS FOR THERAPY AND
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C15

<140> US

<141> 2000-06-12

<160> 814

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(814)

<223> n = A,T,C or G

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 <213> Homo sapien

 <220>
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 <222> (1)...(816)
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tcgctcattg	atcctngcnc	ccggtcttcg	gctgcggnga	acggttcact	cctcaaaggc	780
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 <212> DNA
 <213> Homo sapien

 <220>
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 <222> (1)...(773)
 <223> n = A,T,C or G

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gaatgggnaa	atgggacccc	cctgttaccg	cgcattnaac	ccccgcnngg	tttngttgtt	660
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773

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 <223> n = A,T,C or G

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 ctanagcggc cgccaccgag gtgganctcc ancttttgtt cccttttagtg agggttaatt 480
 gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca 540
 attccacaca acatacganc cggaaacata aantgtaaac ctgggggtgcc taatgantga 600
 ctaactcaca ttaattgcgt tgcgctcact gcccgctttc caatcnggaa acctgtcttg 660
 ccncttgcata tnatgaatcn gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct 720
 tccgcttctc cncctantta ntccctncnc tcggtcattc cggctgcngc aaaccggttc 780
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<210> 5
 <211> 834
 <212> DNA
 <213> Homo sapien

 <220>
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 <222> (1)...(834)
 <223> n = A,T,C or G

<400> 5
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 attttataac aatcaacacc tgtgggtttt aaaatttggg tttcataaga taatttatac 180
 tgaagtaaat ctagccatgc ttttaaaaaa tgcttttaggt cactccaagc ttggcagtta 240
 acatttggca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg 300
 taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
 aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga 420
 cattcagttt tcaaagtagg agacaggttc tacagtatca ttttacagtt tccaacacat 480
 tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta 540
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 ttatttttaa ttagtgctaa atggattaag tgaagacaac aatgggtccc taatgtgatt 660
 gatattggtc atttttacca gcttctaaat ctnaactttc aggcctttga actggaacat 720
 tgnatnacag tgttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa 780
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<210> 6
 <211> 818
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(818)
 <223> n = A,T,C or G

<400> 6

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gacgtgaagt	ccgtggaagc	ctgtggctac	aaaaaatgtt	gagccgtaga	tgccgtcgga	240
aatggtgaag	ggagactcga	agtactctga	ggcttgtagg	agggtaaaat	agagaccag	300
taaaattgta	ataagcagtg	cttgaattat	ttggtttcgg	ttgttttcta	ttagactatg	360
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ttggtatgtg	ctttctcgtg	ttacatcgcg	ccatcattgg	tatatgggta	gtgtgttggg	660
ttantangg	ctantatgaa	gaacttttgg	antggaatta	aatcaatngc	ttggccggaa	720
gtcattanga	nggctnaaaa	ggccctgtta	nggggtctgg	ctnggtttta	cccnaccat	780
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<210> 7
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

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ggtttgctcc	acagatttca	gagcattgac	cgtagtatac	ccccggtcgt	gtagcgggta	180
aagtggtttg	gttttagacgt	ccgggaattg	catctgtttt	taagcctaata	gtggggacag	240
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gtactactcg	attgtcaacg	tcaaggagtc	gcaggtcgcc	tggttctagg	aataatggg	360
gaagtatgta	ggaattgaag	attaatccgc	cgtagtcggg	gttctcctag	gttcaatacc	420
attggtggcc	aattgatttg	atggtaagg	gagggatcgt	tgaactcgtc	tggttatgtaa	480
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gaatnttng	gaaaagggct	tacaggacta	gaaaccaa	angaaaanta	atnntaang	660
cnttatcntn	aaaggtnata	accnctccta	tnatcccacc	caatngnatt	ccccacnnc	720
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<210> 8
 <211> 799

<212> DNA
 <213> Homo sapien
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 <222> (1)...(799)
 <223> n = A,T,C or G

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caagncctgn	atccactnnt	nctanaaccg	gccnccnccg	cngtgggaacc	cnccttntgt	600
tccttttct	tnagggttaa	tnnccgcttg	gccttnccan	ngtcctnenc	nttttccnnt	660
gttnaaattg	ttangcnccc	nccnntcccn	cnnnnnnan	cccgaaccnn	annttnnann	720
ncctgggggt	ncennngat	tgaccenncc	nccctntant	tgcnttnggg	nnennntgcc	780
ctttccctct	nggganncg					799

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 <212> DNA
 <213> Homo sapien
 <220>
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 <222> (1)...(801)
 <223> n = A,T,C or G

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caaggacaag	gccaccagg	gcgggggccc	aagcccacat	gatccttact	ctatgagcaa	180
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<210> 10
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 <213> Homo sapien

<220>
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 <222> (1)...(789)
 <223> n = A,T,C or G

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tcctgttaac	cccattgggc	tgccggcttg	gccgcccaatt	tctgttgctg	ccaaantnat	720
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 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(772)
 <223> n = A,T,C or G

<400> 11

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ctacattaaa	cgaagctgca	ggttaagggg	cttanagatg	ggaaaccagg	tgactgagtt	360
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<210> 12
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 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(751)

<223> n = A,T,C or G

<400> 12

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ttggctgtgt	tggtgacgtt	gtcattgcaa	cagaatgggg	gaaaggcact	gttctctttg	180
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agcagctgcn	acctcagcaa	tgaagatgan	gaggangatg	aagaagaacg	tcncgagggc	420
acatttgcct	tcagtcttan	caccatanca	gcccntgaaa	accaananca	aagaccacna	480
cnccggtgc	gatgaagaaa	tnaccccneg	ttgacaaact	tgcatggcac	tggganccac	540
agtggccena	aaaatcttca	aaaaggatgc	cccctcnatt	gaccccccaa	atgcccaactg	600
ccaacagggg	ctgccccacn	cncnnaacga	tgancnatt	gnacaagatc	tncntgggtct	660
tnatnaacnt	gaaccctgcn	tngtgggtcc	tggtcaggnc	cnnnggctga	cttctnaann	720
aangaactcn	gaagncccca	cngganannc	g			751

<210> 13

<211> 729

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(729)

<223> n = A,T,C or G

<400> 13

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accatgcagt	gcttcagctt	cattaagacc	atgatgatcc	tcttcaattt	gtcatctttt	180
ctgtgtggtg	cagccctggt	ggcagtgggc	atctgggtgt	caatcgatgg	ggcatccttt	240
ctgaagatct	tcggggccact	gtcgtccagt	gccatgcagt	ttgtcaacgt	gggtacttct	300
ctcatgcag	ccggcggtgt	ggtcttagct	ctaggtttcc	tgggctgcta	tggtgctaag	360
actgagagca	agtggtgccct	cgtgacgttc	ttcttcatcc	tcctcctcat	cttcattgct	420
gaggttgcaa	tgctgtggtc	gccttggtgt	acaccacaat	ggctgagcac	ttcctgacgt	480
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gttggaacac	caccatgaaa	gggtcgaagt	gctgtggctt	cnnccaacta	tacggatttt	600
gaagantcac	ctacttcaaa	gaaaanagtg	cctttccccc	atttctgttg	caattgacaa	660
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<220>

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<222> (1)...(816)

<223> n = A,T,C or G

<400> 14

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ggcaggtcca	cgcagtcccc	tttgtcactg	gggaaatgga	tgcgctggag	ctcgtcaaag	180
ccactcgtgt	atctttcaca	ggcagcctcg	tccgacgcgt	cggggcagtt	gggggtgtct	240
tcacactcca	ggaaactgtc	natgcagcag	ccattgctgc	agcggaaactg	ggtgggctga	300
cangtgccag	agcacactgg	atggcgcctt	tccatgnnan	gggccctgng	ggaaagtccc	360
tganccecan	anctgcctct	caaangcccc	accttgccac	ccccgacagg	ctagaatgga	420
atcttcttcc	cgaaaggtag	ttnttcttgt	tgcccaancc	anccccntaa	acaaactctt	480
gcanatctgc	tccgnggggg	tctantacc	ancgtgggaa	aagaacccca	ggcngcgaac	540
caancttggt	tggatncgaa	gcnataatct	nctnttctgc	ttggtggaca	gcaccantna	600
ctgtnnanct	ttagnccntg	gtcctcntgg	gttgnncttg	aacctaatcn	ccnntcaact	660
gggacaagg	aantngccnt	cctttnaatt	cccnancntn	ccccctggtt	tggggttttt	720
cncnctecta	ccccagaaan	nccgtgttcc	cccccaacta	ggggccnaaa	ccnnttnttc	780
cacaaccctn	ccccaccac	gggttcngnt	ggttng			816

<210> 15

<211> 783

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 15

ccaaggcctg	ggcaggcata	nacttgaagg	tacaacccca	ggaacccctg	gtgctgaagg	60
atgtggaaaa	cacagattgg	cgcctactgc	ggggtgacac	ggatgtcagg	gtagagagga	120
aagacccaaa	ccaggtggaa	ctgtggggac	tcaaggaang	cacctacctg	ttccagctga	180
cagtgactag	ctcagaccac	ccagaggaca	cggccaacgt	cacagtcact	gtgctgtcca	240
ccaagcagac	agaagactac	tgcctcgcat	ccaacaangt	gggtcgctgc	cggggctctt	300
tcccacgctg	gtactatgac	cccacggagc	agatctgcaa	gagtttcggt	tatggaggct	360
gcttgggcaa	caagaacaac	taccttcggg	aagaagagtg	cattctancc	tgtcnggggtg	420
tgcaagggtg	gcctttgana	ngcanctctg	gggctcangc	gactttcccc	cagggccctt	480
ccatggaaag	gcgccatcca	ntgttctctg	gcacctgtca	gcccacccag	ttccgctgca	540
ncaatggctg	ctgcactnac	antttcctng	aattgtgaca	acacccccca	ntgcccccaa	600
ccctcccaac	aaagcttccc	tgttnaaaaa	tacnccantt	ggcttttnac	aaacncccg	660
cncctcctnt	ttccccnntn	aacaaagggc	nctngcnttt	gaactgcccn	aaccnnggaa	720
tctnccnngg	aaaaantncc	ccccctggtt	cctnnaancc	cctccnchna	anctncccc	780
ccc						783

<210> 16

<211> 801

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(801)

<223> n = A,T,C or G

<400> 16

gccccaatc	cagctgccac	accacccacg	gtgactgcat	tagttcggat	gtcatataaa	60
agctgattga	agcaaccctc	tacttttttg	tcgtgagcct	tttgcttgg	gcaggtttca	120

ttggctgtgt	tggtgacgtt	gtcattgcaa	cagaatgggg	gaaaggcact	gttctctttg	180
aagtaggggtg	agtcctcaaa	atccgtatag	ttggtgaagc	cacagcactt	gagccctttc	240
atgggtgggtg	tccacacttg	agtgaagtct	tcctgggaac	cataatcttt	cttgatggca	300
ggcactacca	gcaacgtcag	gaagtgtctc	gccattgttg	tgtacaccaa	ggcgaccaca	360
gcagctgcaa	cctcagcaat	gaagatgagg	aggaggatga	agaagaacgt	cncgagggca	420
cacttgctct	ccgtcttagc	accatagcag	cccangaaac	caagagcaaa	gaccacaacg	480
ccngctgcga	atgaaagaaa	ntaccacagt	tgacaaaactg	catggccact	ggacgacagt	540
tggcccgaan	atcttcagaa	aagggatgcc	ccatcgattg	aacacccana	tgcccactgc	600
cnacagggct	gcncncncn	gaaagaatga	gccattgaag	aaggatcnc	ntggctcttaa	660
tgaactgaaa	ccttgcatgg	tggcccctgt	tcagggctct	tggcagtga	ttctganaaa	720
aaggaacngc	ntnagcccc	ccaaangana	aaacaccccc	gggtgttgcc	ctgaattggc	780
ggccaaggan	ccctgccccn	g				801

<210> 17

<211> 740

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

<400> 17

gtgagagcca	ggcgctccctc	tgccctgccca	ctcagtgcca	acacccggga	gctgttttgt	60
cctttgtgga	gcctcagcag	ttccctcttt	cagaactcac	tgccaagagc	cctgaacagg	120
agccaccatg	cagtgtctca	gcttcattaa	gaccatgatg	atcctcttca	atttgctcat	180
ctttctgtgt	ggtgcagccc	tggtggcagt	gggcatctgg	gtgtcaatcg	atggggcatc	240
ctttctgaag	atcttcgggc	cactgtcgctc	cagtgccatg	cagtttgta	acgtgggcta	300
cttctctatc	gcagccggcg	ttgtggctctt	tgctcttggg	ttcctgggct	gctatgggtg	360
taagacggag	agcaagtgtg	ccctcgtgac	gttctttctc	atcctctctc	tcattctcat	420
tgctgaagtt	gcagctgctg	tggtcgccctt	ggtgtacacc	acaatggctg	aaccattcct	480
gacgttgctg	gtantgcctg	ccatcaanaa	agattatggg	ttcccaggaa	aaattcactc	540
aantntggaa	caccnccatg	aaaagggtctc	caatttctgn	tggcttcccc	aactataccg	600
gaattttgaa	agntcnccc	tacttcctaaa	aaaaaanant	tgcccttncc	ccntttctgt	660
tgcaatgaaa	acntcccaan	acngccaatn	aaaacctgcc	cnnncaaaaa	ggntcncaaa	720
caaaaaaant	nnaagggttn					740

<210> 18

<211> 802

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(802)

<223> n = A,T,C or G

<400> 18

ccgctggttg	cgctggtcca	gnagnaccac	gaagcacgtc	agcatacaca	gcctcaatca	60
caaggtcttc	cagctgccgc	acattacgca	gggcaagagc	ctccagcaac	actgcatatg	120
ggatacactt	tactttagca	gccaggggtga	caactgagag	gtgtcgaagc	ttattcttct	180
gagcctctgt	tagtggagga	agattccggg	cttcagctaa	gtagtacagc	tatgtcccat	240
aagcaaacac	tgtgagcagc	cggaaggtag	aggcaaagtc	actctcagcc	agctctctaa	300

cattgggcat	gtccagcagt	tctccaaaca	cgtagacacc	agnggcctcc	agcacctgat	360
ggatgagtgt	ggccagcgct	gcccccttgg	ccgacttggc	taggagcaga	aattgctcct	420
ggtttctgcc	tgtcaccttc	acttccgcac	tcatactgc	actgagtgtg	ggggacttgg	480
gctcaggatg	tccagagacg	tggttccgcc	ccctcnccta	atgacaccgn	ccanncaacc	540
gtcggctccc	gccgantgng	ttcgtcgtnc	ctgggtcagg	gtctgctggc	cncacttgc	600
aancttcgtc	nggccccatg	aattcaccnc	accggaactn	gtangatcca	ctnnttctat	660
aaccggnccg	caccgcnnnt	ggaactccac	tcttnttnc	tttacttgag	ggttaaggtc	720
acccttnncc	ttaccttgg	ccaaacctn	ccntgtgtcg	anatngtnaa	tcnggnccna	780
tnccancnc	atangaagcc	ng				802

<210> 19

<211> 731

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(731)

<223> n = A,T,C or G

<400> 19

cnaagcttcc	aggtnacggg	ccgcnaancc	tgacccnagg	tancanaang	cagnccgcgg	60
gagccaccg	tcacngngng	gngtctttat	nggagggggc	ggagccacat	cncctggacnt	120
cntgacccca	actccccncc	ncncantgca	gtgatgagtg	cagaactgaa	ggtnacgtgg	180
caggaaccaa	gancaaannc	tgtccnntc	caagtcggcn	nagggggcgg	ggctggccac	240
gencatccnt	cnagtgtctg	aaagccccnn	cctgtctact	tgtttgaga	acngcnnga	300
catgcccagn	gttanataac	nggcngagag	tnantttgcc	tctcccttcc	ggctgcgcan	360
cgngtntgct	tagnggacat	aacctgacta	cttaactgaa	cccngaatac	tnccnccct	420
ccactaagct	cagaacaaaa	aacttcgaca	ccactcantt	gtcacctgnc	tgtcaagta	480
aagtgtaccc	catncccaat	gtntgctnga	ngctctgncc	tgcnttangt	tcggctctgg	540
gaagacctat	caattnaagc	tatgtttctg	actgcctctt	gtccctgna	acaancnacc	600
cnnccntcca	agggggggnc	ggcccccaat	ccccccaacc	ntnaattnan	tttancccn	660
ccccngggcc	cggcctttta	cnancntcnn	nnaacnggna	aaaccnnngc	tttncccaac	720
nnaatccncc	t					731

<210> 20

<211> 754

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(754)

<223> n = A,T,C or G

<400> 20

tttttttttt	tttttttttt	taaaaacccc	ctccattnaa	tgnaaacttc	cgaaattgtc	60
caaccccctc	ntccaaatnn	ccntttccgg	gnngggggtc	caaacccean	ttanntttgg	120
annttaaatt	aatnttntnt	tgngngnnna	ancnnaatgt	nangaaagtt	naaccanta	180
tnanccttna	tnccctggaaa	ccngtngntt	ccaaaaatnt	ttaaccctta	antccctccg	240
aaatngttta	nggaaaaaccc	aantttctnt	aaggttggtt	gaaggntnaa	tnaaaaaccc	300
nnccaattgt	ttttngccac	gcctgaatta	attggnnttc	gntgttttcc	nttaaaaana	360
ggnnancccc	ggttantnaa	tccccccnnc	cccaattata	ccganttttt	ttngaattgg	420
gancccnccg	gaattaacgg	ggnnnnntccc	tnttgggggg	cnggnncccc	cccctccggg	480

ggttngggnc	aggnccnaat	tgtttaaggg	tccgaaaaat	ccctccnaga	aaaaaanctc	540
ccaggttgag	nntnggggtt	ccccccccc	canggccct	ctcganag	tggggtttgg	600
ggggcctggg	attnntttt	ccctnttnc	ccccccccc	ccnggganag	aggttngngt	660
tttgntcnnc	ggccccnccn	aaganctttn	ccganttnan	ttaaatccnt	gcctnggcga	720
agtcctttgn	agggntaaan	ggccccctnn	cggg			754

<210> 21
 <211> 755
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(755)
 <223> n = A,T,C or G

<400> 21						
atcancccat	gacccnaac	nngggaccnc	tcancgggnc	nnncnaccnc	cgcccnatca	60
nngtnagnnc	actncnnttn	natcacnccc	cncnactac	gcccnananc	cnacgcncta	120
nncanatncc	actganngcg	cgangtngan	ngagaaanct	nataccanag	ncaccanacn	180
ccagctgtcc	nanaangcct	nnnatacngg	nnnatccaat	ntgnancctc	cnaagtattn	240
nncnncanat	gattttcctn	anccgattac	ccntncccc	tanccctcc	cccccaacna	300
cgaaggcnct	ggncnaagg	nngcgncc	ccgctagntc	cccnnaagt	cncncncta	360
aactcanccn	nattacncc	ttcntgagta	tcactcccc	aatctcacc	tactcaactc	420
aaaaanatch	gatacaaat	aatncaagcc	tgnttatnac	actntgactg	ggtctctatt	480
ttagnngtcc	ntnaancntc	ctaatacttc	cagtctncct	tcnccaattt	ccnaanggct	540
ctttcngaca	gcatntttt	gttcccnntt	gggttcttan	ngaattgcc	ttcntngaac	600
gggtctntct	tttccctcgg	ttanccctgn	ttcncccgcc	cagttattat	ttcccntttt	660
aaattcntnc	cntttanttt	tggcnttcna	aacccccggc	cttgaaaacg	gccccctggt	720
aaaaggttgt	tttganaaaa	tttttgtttt	gttcc			755

<210> 22
 <211> 849
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(849)
 <223> n = A,T,C or G

<400> 22						
tttttttttt	tttttangtg	tngtcgtgca	ggtagaggct	tactacaant	gtgaanacgt	60
acgctnngan	taangcgacc	cgantttctag	ganncnccct	aaaatcanac	tgtgaagatn	120
atcctgnnna	cggaanggtc	accggnggat	nntgctaggg	tgncnctcc	cannncnttn	180
cataactcng	nggccctgcc	caccaccttc	ggcgcccnng	ngnccgggcc	cgggtcattn	240
gnnttaaccn	cactnngcna	ncggtttccn	ccccennng	accnnggcga	tccggggtn	300
tctgtcttcc	cctgnagncn	anaaantggg	ccnccgnccc	ctttaccctc	nnacaagcca	360
cngcctteta	ncnccngccc	ccccctcant	nngggggact	gccnanngt	ccgttncnng	420
nnaccccnnn	gggtncctcg	gttgctcgant	cnaccgnang	ccanggattc	cnaaggaagg	480
tgcgttnttg	gccccatccc	ttcgtctcgg	nnacccttc	ccgacnanga	nccgtccccg	540
cncnccgnng	cctcncctcg	caacacccgc	ncctctcngt	ncggnnnccc	ccccaccgc	600
ncctcncnc	ngnccgnanc	ctcncnccc	gtctcannca	ccaccccgcc	ccgccaggcc	660
ntcanccacn	ggnnagacng	nagcncnttc	gcncgcgcgn	gcgnccctc	cgccnngaa	720

ctnctcngg	ccantnncgc	tcaancnna	cnaaacgcgc	ctgcgcggcc	cgnagcgncc	780
ncctcncga	gtcctcccgn	cttccnacc	angnttccn	cgaggacacn	nnaccccgcc	840
nncangcgg						849

<210> 23
 <211> 872
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(872)
 <223> n = A,T,C or G

<400> 23						
gcgcaaaacta	tacttcgctc	gnactcgtgc	gcctcgcctnc	tcttttcctc	cgcaaccatg	60
tctgacnanc	ccgattnggc	ngatatchan	aagntcganc	agtccaaact	gantaacaca	120
cacacncnan	aganaaatcc	nctgccttcc	anagtanaen	attgaacnng	agaaccangc	180
nggcgaatcg	taatnaggcg	tgcgcgcgcca	atntgtcncc	gtttattntn	ccagcntcnc	240
ctnccnacc	tacntcttcn	nagctgtcnn	acccctngtn	cgnaccccc	naggtcgggg	300
tcgggtttnn	nntgaccng	cnnccctcc	ccccntccat	nacganccnc	ccgcaccacc	360
nanngcncgc	nccccgnnct	cttcgcncnc	ctgtcctntn	ccccgtngc	ctggcncngn	420
accgcattga	ccctcgcenn	ctncnngaaa	ncgnanacgt	ccgggttggn	annancgctg	480
tgggnnngcg	tctgcncgc	gttccttcen	ncncttcca	ccatcttct	tacnggggtc	540
ccncgcctc	tcnnncacnc	cctgggacgc	tntcctntgc	cccccttnac	tccccccctt	600
cgnctgncc	cgnccccacc	ntcatttnca	nacgntcttc	acaannncct	ggntnnctcc	660
cnancngncn	gtcanccnag	ggaagggngg	ggnnccnntg	nttgacgttg	nggngangtc	720
cgaanantcc	tcnccntcan	cctacccct	cgggcgnnct	ctcngttnc	aacttancaa	780
ntctcccccg	ngngcncntc	tcagcctcnc	ccnccccnct	ctctgcantg	tntctcgtc	840
tnaccnntac	gantnttcgn	cncctcttt	cc			872

<210> 24
 <211> 815
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 24						
gcatgcaagc	ttgagtattc	tatagngtca	cctaaatanc	ttggcntaat	catggctnta	60
nctgncttcc	tgtgtcaa	gtatacna	tanatatgaa	tctnatntga	caaganngta	120
tentncatta	gtaacaantg	tnntgtccat	cctgtcngan	canattccca	tnnattnegn	180
cgcattcncn	gencantatn	taatngggaa	ntcnntnnn	ncaccnncat	ctatcntncc	240
gcnccctgac	tggnagagat	ggatnanttc	tnntntgacc	nacatgttca	tcttggattn	300
aanancccc	cgcnngccac	cggttngnng	cnagccnntc	ccaagacctc	ctgtggaggt	360
aacctgcgtc	aganncatca	aaentgggaa	acccgcnncc	angtnnaagt	ngnnncanan	420
gateccgtcc	aggnttnacc	atcccttcnc	agcgccttcc	ttngtgcctt	anagnnagc	480
gtgtccnanc	cnetcaacat	ganacgcgcc	agnccanccg	caattnggca	caatgtcgnc	540
gaacccccta	gggggantna	tncaaanc	caggattgtc	cncncangaa	atcccnanc	600
ccnccctac	ccncttttg	gacngtgacc	aantcccgga	gtncacgtcc	ggccngnctc	660
ccccaccggt	nncntgggg	gggtgaanct	cngnntcanc	cngncgaggn	ntcgnaagg	720


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accggncctn ggncgaanng ancnntcnga agngccnct cgtataaccc cccctcncca 780
nccnacngnt agntcccccc cngggtnccg aangg 815

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<210> 25
<211> 775
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

```

```

<400> 25
ccgagatgtc tcgctccgtg gccttagctg tgctcgcgct actctctctt tctggcctgg 60
aggctatcca gcgtactcca aagattcagg ttactcacg tcatccagca gagaatggaa 120
agtcaaattt cctgaattgc tatgtgtctg ggtttcatcc atccgacatt gaanttgact 180
tactgaagaa tgganagaga attgaaaaag tggagcattc agacttgtct ttcagcaagg 240
actggtcttt ctatctcntg tactacactg aattcacccc cactgaaaaa gatgagtatg 300
cctgccgtgt gaaccatgtg actttgtcac agcccaagat agttaagtgg gatcgagaca 360
tgtaagcagn cncatggaa gtttgaagat gccgcatttg gattggatga attccaaatt 420
ctgcttgctt gcnttttaat antgatatgc ntataacccc taccctttat gnccccaat 480
tgtaggggtt acatnantgt tcnctnngga catgatcttc ctttataant ccnccnttcg 540
aattgcccgt cncncngttn ngaatgtttc cnnaaccacg gttggctccc ccaggtcncc 600
tcttacggaa gggcctgggc cnccttncaa gggtggggga accnaaaatt tcncttntgc 660
ccncccncca cncctctgng nncncanttt ggaacccttc cnattcccct tggcctcnna 720
nccttnncta anaaaacttn aaancgtngc naaanntttt acttcccccc ttacc 775

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<210> 26
<211> 820
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

```

```

<400> 26
anattantac agtgtaatct tttcccagag gtgtgtanag ggaacggggc ctagaggcat 60
cccanagata ncttatanca acagtgcctt gaccaagagc tgctgggcac atttcctgca 120
gaaaagggtg cggccccat cactcctcct ctcccatagc catcccagag gggtgagtag 180
ccatcangcc ttcggtggga gggagtcang gaaacaacan accacagagc anacagacca 240
ntgatgacca tgggcgggag cgagcctctt ccctgnaccg gggtggcana nganagccta 300
nctgaggggt cacactataa acgttaacga ccnagatnan cacctgcttc aagtgcaccc 360
ttcctacctg acnaccagng accnnnaact gcngcctggg gacagcncctg ggancagcta 420
acnagcact cacctgcccc cccatggccg tncgntccc tggctcctgnc aagggaaagt 480
ccctgttgga attncgggga naccaaggga nccccctcct ccantgtga aggaaaaann 540
gatggaattt tnccttccg gccnntcccc tcttcttta cacgccccct nntactcnc 600
tccctctntt ntctgncnc acttttnacc ccmnnatttc ccttnattga tcggannctn 660
ganattccac tncgcctnc cntcnatcng naanacnaaa nactntctna cccnggggat 720
gggnncctcg ntcatcctc cttttctcct accnccnntt ctttgccctc ccttngatca 780
tccaacctc gntggccntn ccccccnntt tcctttncce 820

```

<210> 27
 <211> 818
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(818)
 <223> n = A,T,C or G

```

<400> 27
tctgggtgat ggcctcttcc tcctcagga cctctgactg ctctgggcca aagaatctct      60
tgtttcttct ccgagcccca ggcagcgggtg attcagccct gcccacactg attctgatga      120
ctgcgggatgc tgtgacggac ccaaggggca aatagggtcc cagggtccag ggaggggcg      180
ctgctgagca ctccgcccc tcacctgcc cagccctgc catgagctct gggctgggtc      240
tccgctcca gggttctgct ctccangca ngccancaag tggcgctggg ccacactggc      300
ttcttctgc cccctccctg gctctganc tctgtcttcc tgcctgtgc angcnccttg      360
gatctcagtt tccctcnctc anngaactct gtttctgann tcttcantta actntgantt      420
tatnaccnan tggnetgtnc tgcnnactt taatgggccc gaccggctaa tccctccctc      480
nctcccttcc anttcnnnna accngcttnc cntctctcc ccntancccg ccngggaanc      540
ctcctttgcc ctaccangg gccnnnaccg cccntnnctn ggggggcnng gtnnctncnc      600
ctgntnnccc cctcncnnt tncctcgtec cnnennccgc nngcannttc ncngtcccn      660
tnnctcttcn ngntcgnaa ngntcncntn tnnnnngncn ngntnnntcn tccctctcnc      720
cnnntgnang tnnntnnnnc ncngnncccc nnnnnnnnnn nggnnnntnn tctncncngc      780
ccnnccccc ngnattaagg cctccnntct ccggccnc      818
  
```

<210> 28
 <211> 731
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(731)
 <223> n = A,T,C or G

```

<400> 28
aggaagggcg gagggatatt gtangggatt gagggatagg agnataangg gggaggtgtg      60
tcccaacatg anggtgnngt tctcttttga angaggggtg ngtttttann ccnggtgggt      120
gattnaaccc cattgtatgg agnnaaagg ttnnaggat ttttcggctc ttatcagtat      180
ntanattcct gtnaatcgga aaatnatntt tcnnccngaa aatnttgctc ccatccgnaa      240
attnctccc ggtagtgcatt nttngggggn cngccangtt tcccaggctg ctanaatcgt      300
actaaagntt naagtgggan tncaaatgaa aacctnncac agagnatccn taccgactg      360
tnnnttncct tcgcccctng actctgcnn agcccaatac ccnngngnat gtcncccn      420
nnngcgnnc tgaaannnnc tcgnggctnn gancatcang gggtttcgca tcaaaagcnn      480
cgtttncat naaggcactt tngcctcatc caaccnctng ccctcnncca tttngccgtc      540
nggttncct acgctnnng cncctnnntn ganattttnc ccgctnngg naancctcct      600
gnaatgggta gggncctntc ttttnaccnn gnggtntact aatcnnctnc acgcntnctt      660
tctnaccccc ccccttttt caatcccanc ggcnaatggg gtctccccnn cgangggggg      720
nnccannnc c
  
```

<210> 29
 <211> 822
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 29

actagtccag	tgtggtggaa	ttccattgtg	ttggggncnc	ttctatgant	antnttagat	60
cgctcanacc	tcacancctc	ccnacnangc	ctataangaa	nannaataga	nctgtncnnt	120
atntntacnc	tcatanncct	cnnnaccac	tccctcttaa	ccctactgt	gcctatngcn	180
tnnctantct	ntgccgcctn	cnanccaccn	gtggggccnac	cncnngnatt	ctcnatctcc	240
tcnccatntn	gcctananta	ngtncatacc	ctatacctac	nccaatgcta	nnnctaancn	300
tccatnantt	annntaacta	ccactgaent	ngactttenc	atnanctcct	aatttgaatc	360
tactctgact	cccacngcct	annnattagc	ancntcccc	nacnatntct	caaccaaadc	420
ntcaacaacc	tatctantctg	ttcnccaacc	nttncctccg	atccccnnac	aacccccctc	480
ccaaataacc	nccactgac	ncctaaccn	caccatcccg	gcaagccnan	ggncatttan	540
ccactggaat	cacnatngga	naaaaaaaac	ccnaactctc	tancncnnat	ctccctaana	600
aatnctcctn	naatttactn	ncantnccat	caanccccacn	tgaaacnnaa	ccccgttttt	660
tanatccctt	ctttcgaaaa	ccnacccttt	annncccaac	ctttngggcc	ccccnctnc	720
ccnaatgaag	gncncccaat	cnangaaacg	nccntgaaaa	ancnaggcna	anannntccg	780
canatcctat	cccttanttn	ggggncctt	nccngggcc	cc		822

<210> 30

<211> 787

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(787)

<223> n = A,T,C or G

<400> 30

cgggcgccctg	ctctggcaca	tgcctcctga	atggcatcaa	aagtgatgga	ctgcccattg	60
ctagagaaga	ccttctctcc	tactgtcatt	atggagccct	gcagactgag	ggctccccctt	120
gtctgcagga	tttgatgtct	gaagtcgtgg	agtgtggcct	ggagctcctc	atctacatna	180
gctggaagcc	ctggagggcc	tctctcgcca	gcctccccct	tctctccacg	ctctccangg	240
acaccagggg	ctccaggcag	cccattatct	ccagnangac	atgggtgttc	tccacgcgga	300
cccatggggc	ctgnaaggcc	agggctctct	ttgacaccat	ctctcccgct	ctgcctggca	360
ggccgtggga	tccactantt	ctanaacggg	cgccaccncg	gtgggagctc	cagcttttgt	420
tcccnttaat	gaaggttaat	tgcncgcttg	gcgtaatcat	nggtcanaac	tnnttctgt	480
gtgaaattgt	ttntccccct	ncnattecnc	ncnacatacn	aacccggaan	cataaagtgt	540
taaagcctgg	gggtngcctn	nngaataaac	tnaactcaat	taattgcgtt	ggctcatggc	600
ccgctttccn	ttcnggaaaa	ctgtcntccc	ctgcnttnnt	gaatcgggcca	ccccccnggg	660
aaaagcgggt	tgcnttttng	ggggntcctt	ccncttcccc	cctcnctaan	ccctnccgct	720
cggtcgttnc	nggtngcggg	gaangggnat	nnnctccnc	naagggggng	agnnngntat	780
ccccaaa						787

<210> 31

<211> 799

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(799)
 <223> n = A,T,C or G

<400> 31

tttttttttt	tttttttggc	gatgctactg	tttaattgca	ggaggtgggg	gtgtgtgtac	60
catgtaccag	ggctattaga	agcaagaagg	aaggagggag	ggcagagcgc	cctgctgagc	120
aacaaaggac	tcctgcagcc	ttctctgtct	gtctcttggc	gcaggcacat	ggggaggcct	180
cccgcagggt	gggggccacc	agtccagggg	tgggagcact	acanggggtg	ggagtgggtg	240
gtggttggt	cnaatggcct	gncacanatc	cctacgattc	ttgacacctg	gatttcacca	300
ggggaccttc	tgttctccca	nggnaacttc	ntnnatctcn	aaagaacaca	actgtttctt	360
cngcanttct	ggctgttcat	ggaaagcaca	ggtgtccnat	ttnggctggg	acttggtaca	420
tatggttcgg	gcccacctct	ccntcnaaa	aagtaattca	ccccccccc	ccntctnttg	480
cctgggacct	taantaccca	caccggaact	canttanta	ttcatcttng	gntgggcttg	540
ntnatnccn	cctgaangcg	ccaagttgaa	aggccacgcc	gtncnccnctc	cccatagnan	600
nttttntnt	canttaatgc	ccccccnggc	aacnatccaa	tccccccccc	tggggggccc	660
agccccagcg	ccccgncctg	ggnnnccngn	cncgnantcc	ccaggntctc	ccantcngnc	720
ccnnngcncc	cccgcacgca	gaacanaagg	ntngagccnc	cgcannnnnn	nggtnncnac	780
ctcggcccc	ccnccgng					799

<210> 32
 <211> 789
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(789)
 <223> n = A,T,C or G

<400> 32

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tttttccnag	ggcagggttta	ttgacaacct	cncgggacac	aancaggctg	gggacaggac	120
ggcaacaggc	tccggcgggc	gcggcgggcg	ccctacctgc	ggtaccaa	ntgcagcctc	180
cgctcccgt	tgatnttcct	ctgcagctgc	aggatgccnt	aaaacagggc	ctcgcccntn	240
ggtgggcacc	ctgggatttn	aatttccacg	ggcacaatgc	ggtcgcancc	cctcaccacc	300
nattaggaat	agtggtnnta	ccnccnccg	ttggcnaact	ccccntggaa	accacttntc	360
gcggctccgg	catctggtct	taaaccttgc	aaacnctggg	gccctctttt	tggttantnt	420
ncnngccaca	atcatnactc	agactggcnc	gggctggccc	caaaaaancn	ccccaaaacc	480
ggncatgtc	ttnnccgggt	tgctgcnatn	tncatcacct	cccggggcna	ncaggncaac	540
ccaaaagtgc	ttngggcccn	caaaaaanct	ccgggggggnc	ccagtttcaa	caaagtcac	600
ccccttggcc	cccaaatact	ccccccgntt	ncgtgggtttg	ggaacccacg	cctctnnctt	660
tggnnggcaa	gntggntccc	ccttcggggc	cccgggtggc	ccnncctctaa	ngaaaacncc	720
ntcctnnnca	ccatcccccc	nngnnacgnc	tancaangna	tccctttttt	tanaaacggg	780
ccccccnccg						789

<210> 33
 <211> 793
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(793)

<223> n = A,T,C or G

<400> 33

gacagaacat	ggttgatggt	ggagcacctt	tctatacgac	ttacaggaca	gcagatgggg	60
aattcatggc	tggttgagca	atanaacccc	agttctacga	gctgctgac	aaaggacttg	120
gactaaagtc	tgatgaactt	cccaatcaga	tgagcatgga	tgattggcca	gaaatgaana	180
agaagtttgc	agatgtatth	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atctttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	cttttgagga	ggttgttcat	catgatcaca	300
acaangaacg	gggctcgtht	atcaccantg	aggagcagga	cgtgagcccc	cgccctgcac	360
ctctgctgth	aaacacccca	gccatccctt	ctttcaaaaag	ggatccacta	cttctagagc	420
ggngcgcacc	gcggtggagc	tccagcttht	gttcccttht	gtgagggtta	attgcgcgct	480
tggcgtaatc	atggtcatan	ctgtttcctg	tgtgaaattg	ttatccgctc	acaattccac	540
acaacatacg	anccggaagc	atnaaattth	aaagcctggn	ggtngcctaa	tgantgaact	600
nactcacatt	aattggctth	gcgctcactg	cccgtthtcc	agtccggaaa	acctgtcctt	660
gccagctgcc	nttaatgaat	cnggccaccc	cccggggaaa	aggcngtttg	cttnttgggg	720
cgcncctccc	gctthtctgc	ttcctgaant	ccttcccccc	ggtctthtgcg	cttgccggcna	780
acggtatcna	cct					793

<210> 34

<211> 756

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(756)

<223> n = A,T,C or G

<400> 34

gccgcgaccg	gcatgtacga	gcaactcaag	ggcgagtggga	accgtaaaaag	ccccaatctt	60
ancaagtgcg	gggaanagct	gggtcgactc	aagctagttc	ttctggagct	caacttcttg	120
ccaaccacag	ggaccaagct	gaccaaacag	cagctaattc	tgccccgtga	catactggag	180
atcgggggccc	aatggagcat	cctacgcaan	gacatccccct	ccttcgagcg	ctacatggcc	240
cagctcaaat	gctactactt	tgattacaan	gagcagctcc	ccgagtcagc	ctatatgcac	300
cagctcttgg	gcctcaacct	cctcttccctg	ctgtcccaga	accgggtggc	tgantnccac	360
acgganttgg	ancggctgcc	tgcccaanga	catacanacc	aatgtctaca	tcnaccacca	420
gtgtcctgga	gcaatactga	tgganggcag	ctaccncaaa	gtnttccctg	ccnagggtta	480
catccccgcg	cgagagctac	accttcttca	ttgacatcct	gctcgacact	atcaggggatg	540
aaaatcgng	ggttgctcca	gaaaggctnc	aanaanatcc	ttttcnctga	aggcccccg	600
atnncntagt	nctagaatcg	gcccgcctac	gcggtgganc	ctccaacctt	tcgttnccct	660
ttactgaggg	ttnattgccg	cccttggcgt	tatcatggtc	acnccngttn	cctgtgttga	720
aattnttaac	cccccaaat	tccacgcna	cattn			756

<210> 35

<211> 834

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(834)

<223> n = A,T,C or G

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<400> 35
ggggatctct anacnacct gnatgcatgg ttgtcggtgt ggtcgctgtc gatgaanatg      60
aacaggatct tgccttgaa gctctcggt gctgtnttta agttgctcag tctgccgtca      120
tagtcagaca cncctctggg caaaaaacan caggatntga gtcttgattt cacctccaat      180
aatcttcngg gctgtctgct cgggtgaactc gatgacnang ggcagctggt tgtgtntgat      240
aaantccanc angttctcct tgggtgaactc ccttcaaag ttgttcgggc cttcatcaaa      300
cttctnnaan angannancc canctttgtc gagctggnat ttgganaaca cgtcactgtt      360
ggaaactgat cccaaatggt atgtcatcca tgcctctgtc tgcctgcaa aaacttgctt      420
ggcncaaadc cgactcccn tcttgaaag aagccnatca cccccctc cctggactcc      480
nncaangact ctncgctnc cccntccng cagggttggg ggcannccgg gccntgctc      540
ttcttcagcc agttcacnat ntcatcagc cctctgcca gctgtntat tcttggggg      600
ggaanccgtc tctcccttcc tgaannaact ttgaccgtng gaatagccgc gentcncnt      660
acntnctggg cggggttcaa antccctccn ttgncnntcn cctcgggcca ttctggattt      720
nccnaacttt ttccttcccc cncccnccgg ngtttggntt tttcatnggg ccccaactct      780
gctnttggcc antccctggt gggcntntan cncccctnt ggtcccntng ggcc      834

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```

<210> 36
<211> 814
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

```

```

<400> 36
cggncgcttt cengcgcgc cccgtttcca tgacnaagge tcccttcang ttaaatacnn      60
cctagnaaac attaatgggt tgctctacta atacatcata cnaaccagta agcctgcca      120
naacgccaac tcaggccatt cctaccaaag gaagaaagge tggctctcc acccctgta      180
ggaaaggcct gccttgtaag acaccacaat ncggctgaat ctnaagtctt gtgttttact      240
aatggaaaaa aaaaataaac aanagggtttt gttctcatgg ctgcccaccg cagcctggca      300
ctaaaacanc ccagcgtcct cttctgcttg ganaaatatt ctttgcctt ttggacatca      360
ggcttgatgg tatcactgcc acntttccac ccagctgggc ncccttcccc catntttgtc      420
antganctgg aaggcctgaa ncttagtctc caaaagtctc ngcccacaag accggccacc      480
aggggagtc nttncagtg gatctgcaa anantaccn tatcatcnt gaataaaaag      540
gcccctgaac ganatgcttc cancancctt taagaccat aatcctngaa ccatggtgcc      600
cttcgggtct gatccnaaag gaatgttctt gggteccant cctcctttg ttnttacgt      660
tgtnttggac cntgctngn atnaccnaan tganatcccc ngaagcacc tncctctggc      720
atttganttt cntaaattct ctgccctacn nctgaaagca cnattccctn ggcncnaa      780
gngaactca agaaggtctn ngaaaaacca cncn      814

```

```

<210> 37
<211> 760
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

```

```

<400> 37
gcatgctgct cttcctcaaa gttgttcttg ttgccataac aaccaccata ggtaaagcgg      60

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gcgcagtgtt	cgctgaaggg	gttgtagtac	cagcgcgggg	tgtctcctt	gcagagtcct	120
gtgtctggca	ggtccacgca	atgccctttg	tcactgggga	aatggatgcg	ctggagctcg	180
tcnaanccac	tcgtgtatth	ttcacangca	gcctcctccg	aagcntccgg	gcagttgggg	240
gtgtcgtcac	actccactaa	actgtcgatn	cancagccca	ttgctgcagc	ggaactgggt	300
gggctgacag	gtgccagaac	acactggatn	ggcctttcca	tggaagggcc	tgggggaaat	360
cncctnancc	caaaactgcct	ctcaaaggcc	accttgcaca	ccccgacagg	ctagaaatgc	420
actcttcttc	ccaaaggtag	ttgttcttgt	tgcccaagca	ncctccanca	aacccaaaanc	480
ttgcaaaatc	tgctccgtgg	gggtcatnnn	taccanggtt	ggggaaanaa	acccggcngn	540
ganccncctt	gtttgaatgc	naaggnaata	atcctcctgt	cttgcttggg	tggaanagca	600
caattgaact	gttaacnttg	ggccngttc	cncnnggtg	gtctgaaact	aatcaccgtc	660
actggaaaaa	ggtangtgcc	ttccttgaat	tcccaaantt	cccctngntt	tgggtntttt	720
ctcctctncc	ctaaaaatcg	tnttcccccc	ccttanggcg			760

<210> 38

<211> 724

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 38

tttttttttt	tttttttttt	tttttttttt	tttttaaaaa	ccccctccat	tgaatgaaaa	60
cttccnaaat	tgtccaaccc	cctcnnccaa	atnnccattt	ccgggggggg	gttccaaacc	120
caaattaatt	ttgganttta	aattaaatnt	tnattngggg	aanaanccaa	atgtnaagaa	180
aatttaaccc	attatnaact	taaatnccctn	gaaacccttg	gnntccaaaa	atttttaacc	240
cttaaatccc	tccgaaattg	ntaanggaaa	accaaattcn	cctaaggctn	tttgaaggtt	300
ngatttaaac	ccccttnant	tnttttnacc	cnnngctnaa	ntatttngnt	tccggtgttt	360
tcctnttaan	cntnggtaac	tcccgntaat	gaannnccct	aanccaatta	aaccgaattt	420
tttttgaatt	ggaaattccn	ngggaattna	ccgggggttt	tcccnttttg	gggccatncc	480
ccncttttcg	gggtttgggn	ntaggttgaa	tttttnnang	nccccaaaaa	ncccccaana	540
aaaaaactcc	caagnnttaa	ttngaattnc	ccccttccca	ggcctttttg	gaaaggnggg	600
ttnttggggg	ccngggantt	cnttcccccn	ttncncccc	cccccnnggt	aaanggttat	660
ngnntttggt	ttttgggccc	cttnanggac	cttccggatn	gaaattaaat	ccccgggngc	720
gccg						724

<210> 39

<211> 751

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(751)

<223> n = A,T,C or G

<400> 39

tttttttttt	tttttctttg	ctcacattta	atttttattt	tgattttttt	taatgctgca	60
caacacaata	tttatttcat	ttgtttcttt	tatttcatth	tatttgtttg	ctgctgctgt	120
tttatttatt	tttactgaaa	gtgagaggga	acttttgttg	ccttttttcc	tttttctgta	180
ggccgcctta	agcttttctaa	atttggaaaca	tctaagcaag	ctgaanggaa	aagggggttt	240
cgcaaaatca	ctcgggggaa	nggaaagggt	gctttgttaa	tcatgcccta	tggtgggtga	300

ttaactgctt	gtacaattac	ntttcacttt	taattaattg	tgctnaangc	tttaattana	360
cttgggggtt	ccctccccc	accaaaccn	ctgacaaaa	gtgccngccc	tcaaatnatg	420
tcccggcnnt	cnttgaaaca	caacngcga	ngttctcatt	ntcccnncnc	caggtnaaaa	480
tgaagggtta	ccatntttta	cnccacctcc	acntggennn	gcctgaatcc	tcnaaaannc	540
ccctcaannc	aattnctnng	ccccggctnc	gcntnngtcc	cncccgggct	ccgggaantn	600
cacccccnga	anncnntnnc	naacnaaatt	ccgaaaatat	tcccnntcnc	tcaattcccc	660
cnnagactnt	cctcnncnan	cncaattttc	ttttnttcac	gaacncgnnc	cnnaaaatgn	720
nnnnncctc	cncnngtcn	naatcnccan	c			751

<210> 40
 <211> 753
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(753)
 <223> n = A,T,C or G

gtggtatttt	ctgtaagatc	aggtgttctt	ccctcgtagg	tttagaggaa	acaccctcat	60
agatgaaaac	ccccccgaga	cagcagcact	gcaactgcca	agcagccggg	gtaggagggg	120
cgccctatgc	acagctgggc	ccttgagaca	gcagggttc	gatgtcaggc	tcgatgtcaa	180
tggtctggaa	gcggcggtg	tacctgcgta	ggggcacacc	gtcagggccc	accaggaact	240
tctcaaagt	ccaggcaacn	tcgttgcgac	acaccggaga	ccaggtgatn	agcttgggggt	300
cggtcataan	cgcggtggcg	tcgtcgctgg	gagctggcag	ggcctcccg	aggaaggcna	360
ataaaaaggtg	cgcccccgca	ccgttcant	cgcaattctc	naanaccatg	angttgggct	420
cnaaccacc	accannccgg	acttccttga	nggaattccc	aaatctcttc	gntcttgggc	480
ttctnctgat	gccctanctg	gttgcccnng	atgccaanca	nccccaancc	ccggggtcct	540
aaanaccn	cctcctcntt	tcctctgggt	tntntcccc	ggacctgggt	tcctctcaag	600
ggancccata	tctcnaccan	tactcacent	nccccccnt	gnnaccanc	cttctannng	660
ttccncccg	ncctctggcc	cntcaaan	gcttnacna	cctgggtctg	ccttcccccc	720
tnccctatct	gnacccnnc	tttgtctcan	tnt			753

<210> 41
 <211> 341
 <212> DNA
 <213> Homo sapien

actatatcca	tcacaacaga	catgcttcat	cccatagact	tcttgacata	gcttcaaagt	60
agtgaaccca	tccttgattt	atatacatat	atgttctcag	tattttggga	gcctttccac	120
ttcttttaac	cttggttcatt	atgaacactg	aaaataggaa	tttgtgaaga	gttaaaaagt	180
tatagcttgt	ttacgtagta	agtttttgaa	gtctacattc	aatccagaca	cttagttgag	240
tgttaaactg	tgatttttaa	aaaatatcat	ttgagaatat	tctttcagag	gtattttcat	300
ttttactttt	tgattaattg	tgttttatat	attagggtag	t		341

<210> 42
 <211> 101
 <212> DNA
 <213> Homo sapien

acttactgaa	tttagttctg	tgctcttctt	tatttagtgt	tgtatcataa	atactttgat	60
------------	------------	------------	------------	------------	------------	----

gtttcaaaca ttctaaataa ataattttca gtggcttcac a 101

<210> 43
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 43
 acatctttgt tacagtctaa gatgtgttct taaatcacca ttccttcctg gtcctcaccc 60
 tccaggggtgg tctcacactg taattagagc tattgaggag tctttacagc aaattaagat 120
 tcagatgcct tgctaagtct agagttctag agttatgttt cagaaagtct aagaaaccca 180
 cctcttgaga ggtcagtaaa gaggacttaa tatttcatat ctacaaaatg accacaggat 240
 tggatacaga acgagagtta tcttgataa ctcagagctg agtacctgcc cgggggccgc 300
 tcgaa 305

<210> 44
 <211> 852
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(852)
 <223> n = A,T,C or G

<400> 44
 acataaatat cagagaaaaag tagtctttga aatattttacg tccaggagtt ctttgtttct 60
 gattattttgg tgtgtgtttt ggtttgtgtc caaagtattg gcagcttcag ttttcatttt 120
 ctctccatcc tcgggcatte ttcccaaatt tatataccag tcttcgtcca tccacacgct 180
 ccagaatttc tctttttag tagtatctca tagctcggct gagcttttca taggtcatgc 240
 tgctgttggt cttcttttta ccccatagct gagccactgc ctctgatttc aagaacctga 300
 agacgccctc agatcgggtct tcccatttta ttaatcctgg gttcttgtct gggttcaaga 360
 ggatgtcgcg gatgaattcc cataagttag tccctctcgg gttgtgcttt ttggtgtggc 420
 acttggcagg ggggtcttgc tcttttttca tatcagggtga ctctgcaaca ggaaggtgac 480
 tgggtggttgc catggagatc tgagcccggc agaaagtatt gctgtccaac aaatctactg 540
 tgctaccata gttggtgtca tataaatagt tctngtcttt ccagggtgtc atgatggaag 600
 gctcagtttg ttcagtcttg acaatgacat tgtgtgtgga ctggaacagg tcactactgc 660
 actggcgggt ccacttcaga tgctgcaagt tgctgtagag gagntgcccc gccgtccctg 720
 ccgcccggtt gaactcctgc aaactcatgc tgcaaagggt ctcgccgttg atgtcgaaact 780
 cntggaaagg gatacaattg gcatccagct ggttggtgtc caggaggtga tggagccact 840
 cccacacctg gt 852

<210> 45
 <211> 234
 <212> DNA
 <213> Homo sapien

<400> 45
 acaacagacc cttgtctgct aacgacctca tgetcatcaa gttggacgaa tccgtgtccg 60
 agtctgacac catccggagc atcagcattg cttcgcagtg ccctaccgcg gggaaactctt 120
 gcctcgtttc tggctggggc ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg 180
 tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgaccgc ctgt 234

<210> 46

<211> 590
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(590)
 <223> n = A,T,C or G

<400> 46

acttttttatt	taaatgttta	taaggcagat	ctatgagaat	gatagaaaac	atgggtgtgta	60
atttgatagc	aatattttgg	agattacaga	gttttagtaa	ttaccaatta	cacagttaaa	120
aagaagataa	tatatcccaa	gcanatacaa	aatatcta	gaaagatcaa	ggcaggaaaa	180
tgantataac	taattgacaa	tggaaaatca	attttaatgt	gaattgcaca	ttatccttta	240
aaagctttca	aaanaaanaa	ttattgcagt	ctanttaatt	caaacagtgt	taaatgggat	300
caggataaan	aactgaaggg	canaaagaat	taattttcac	ttcatgtaac	ncacccanat	360
ttacaatggc	ttaaatgcan	ggaaaaagca	gtggaagtag	ggaagtantc	aaggtctttc	420
tggtctctaa	tctgccttac	tctttgggtg	tggctttgat	cctctggaga	cagctgccag	480
ggctcctggt	atatccacaa	tcccagcagc	aagatgaagg	gatgaaaaag	gacacatgct	540
gccttccttt	gaggagactt	catctcactg	gccaacactc	agtcacatgt		590

<210> 47
 <211> 774
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(774)
 <223> n = A,T,C or G

<400> 47

acaagggggc	ataatgaagg	agtggggana	gatttttaaag	aaggaaaaaa	aacgaggccc	60
tgaacagaat	tttctgnac	aacggggcct	caaaataatt	ttcttgggga	ggttcaagac	120
gcttcactgc	ttgaaactta	aatggatgtg	ggacanaatt	ttctgtaatg	accctgaggg	180
cattacagac	gggactctgg	gaggaaggat	aaacagaaaag	gggacaaaag	ctaattcccaa	240
aacatcaaag	aaaggaaggt	ggcgtcatac	ctcccagcct	acacagttct	ccagggctct	300
cctcatccct	ggaggacgac	agtggaggaa	caactgacca	tgtccccagg	ctcctgtgtg	360
ctggctcctg	gtcttcagcc	cccagctctg	gaagcccacc	ctctgctgat	cctgcgtggc	420
ccacactcct	tgaacacaca	tccccagggt	atattcctgg	acatggctga	acctcctatt	480
cctacttccg	agatgccttg	ctccctgcag	cctgtcaaaa	tcccactcac	cctccaaacc	540
acggcatggg	aagcctttct	gacttgctctg	attactccag	catcttggaa	caatccctga	600
ttccccactc	cttagaggca	agataggggtg	gttaagagta	gggctggacc	acttggagcc	660
aggtctctgg	cttcaaattn	tggctcattt	acgagctatg	ggaccttggg	caagtnatct	720
tcacttctat	gggcntcatt	ttgttctacc	tgcaaaatgg	gggataataa	tagt	774

<210> 48
 <211> 124
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(124)

<223> n = A,T,C or G

<400> 48

canaaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt	60
ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact	120
tggt	124

<210> 49

<211> 147

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(147)

<223> n = A,T,C or G

<400> 49

gcgatgcta ctattttatt gcaggaggtg ggggtgtttt tattattctc tcaacagctt	60
tgtggctaca ggtggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt	120
ttagggcacc catatcccaa gcantgt	147

<210> 50

<211> 107

<212> DNA

<213> Homo sapien

<400> 50

acattaaatt aataaaaagga ctgttggggg tctgctaaaa cacatggctt gatatatattgc	60
atggttttgag gttaggagga gttaggcata tgttttggga gaggggt	107

<210> 51

<211> 204

<212> DNA

<213> Homo sapien

<400> 51

gtcctaggaa gtctagggga cacacgactc tggggtcacg gggccgacac acttgcacgg	60
cggaaggaa aggcagagaa gtgacaccgt cagggggaaa tgacagaaag gaaaatcaag	120
gccttgcaag gtcagaaagg ggactcaggg cttccaccac agccctgccc cacttgcca	180
cctccctttt gggaccagca atgt	204

<210> 52

<211> 491

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(491)

<223> n = A,T,C or G

<400> 52

acaaagataa catttatctt ataacaaaaa tttgatagtt ttaaagggtta gtattgtgta	60
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gggtattttc caaaagacta aagagataac tcaggtaaaa agttagaaat gtataaaaca 120
ccatcagaca gggtttttaa aaacaacata ttacaaaatt agacaatcat ccttaaaaaa 180
aaaacttctt gtatcaattt cttttgttca aaatgactga ctt aantatt tttaaatatt 240
tcanaaacac ttcctcaaaa attttcaana tggtagcttt canatgtncc ct cagtccca 300
atgttgctca gataaataaa tctcgtgaga acttaccacc caccacaagc tttctggggc 360
atgcaacagt gtcttttctt tnc ttttttct tttttttttt ttacaggcac agaaactcat 420
caattttatt tggataacaa aggggtctcca aattatattg aaaaataaat ccaagttaat 480
atcactcttg t 491

```

```

<210> 53
<211> 484
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(484)
<223> n = A,T,C or G

```

```

<400> 53
acataattta gcagggctaa ttaccataag atgctattta ttaanaggtn tatgatctga 60
gtattaacag ttgctgaagt ttggatTTTT tatgcagcat tttctttttg ctttgataac 120
actacagaac ccttaaggac actgaaaatt agtaagtaaa gttcagaaac attagctgct 180
caatcaaate tctacataac actatagtaa ttaaaacgtt aaaaaaaagt gttgaaatct 240
gcactagtat anaccgctcc tgtcaggata anactgcttt ggaacagaaa gggaaaaanc 300
agctttgant ttctttgtgc tgatangagg aaaggctgaa ttaccttgtt gcctctccct 360
aatgattggc aggtcnggta aatnccaaaa catattccaa ctcaacactt cttttccncg 420
tancttgant ctgtgtattc caggancagg cggatggaat gggccagccc ncggatgttc 480
cant 484

```

```

<210> 54
<211> 151
<212> DNA
<213> Homo sapien

```

```

<400> 54
actaaacctc gtgcttgtga actccataca gaaaacggtg ccattccctga acacggctgg 60
ccactgggta tactgctgac aaccgcaaca aaaaaaacac aaatccttgg cactggctag 120
tctatgtcct ctcaagtgcc tttttgtttg t 151

```

```

<210> 55
<211> 91
<212> DNA
<213> Homo sapien

```

```

<400> 55
acctggcttg tctccgggtg gttcccggcg cccccacgg tcccagaac ggacactttc 60
gccctccagt ggatactcga gccaaagtgg t 91

```

```

<210> 56
<211> 133
<212> DNA
<213> Homo sapien

```

<400> 56
ggcggatgtg cgttggttat atacaaatat gtcattttat gtaagggact tgagtatact 60
tggaattttg gtatctgtgg gttgggggga cgggccagga accaataccc catggatacc 120
aagggacaac tgt 133

<210> 57
<211> 147
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(147)
<223> n = A,T,C or G

<400> 57
actctggaga acctgagccg ctgctccgcc tctgggatga ggtgatgcan gcngtggcgc 60
gactgggagc tgagcccttc cctttgcgcc tgcctcagag gattgttgcc gacntgcana 120
tctcantggg ctggatncat gcagggt 147

<210> 58
<211> 198
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(198)
<223> n = A,T,C or G

<400> 58
acagggatat aggtttnaag ttattgtnat tgtaaaatac attgaatttt ctgtatactc 60
tgattacata catttatcct ttaaaaaaga tgtaaatcct aatttttatg ccatctatta 120
atttaccaat gagttacatt gtaaatgaga agtcatgata gcactgaatt ttaactagtt 180
ttgacttcta agtttggt 198

<210> 59
<211> 330
<212> DNA
<213> Homo sapien

<400> 59
acaacaaatg ggttgtgagg aagtcttata agcaaaactg gtgatggcta ctgaaaagat 60
ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaactc actcaatttt 120
cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa 180
tacagtcaat aaatgacaaa gccagggcct acaggtgggt tccagacttt ccagaccag 240
cagaaggaat ctattttatc acatggatct ccgtctgtgc tcaaaatacc taatgatatt 300
tttctgtctt attggacttc tttgaagagt 330

<210> 60
<211> 175
<212> DNA
<213> Homo sapien

<400> 60
 accgtgggtg ccttctacat tcctgacggc tccttcacca acatctggtt ctacttcggc 60
 gtctgtgggt ccttcctctt catcctcatc cagctgggtc tgctcatcga ctttgcgcac 120
 tcctggaacc agcgggtggc gggcaaggcc gaggagtgcg attcccgtgc ctggt 175

<210> 61
 <211> 154
 <212> DNA
 <213> Homo sapien

<400> 61
 accccacttt tcctcctgtg agcagtctgg acttctcact gctacatgat gaggggtgagt 60
 ggttggttgc cttcaacagt atcctccctt ttccggatct gctgagccgg acagcagtgc 120
 tggactgcac agccccggg ctccacattg ctgt 154

<210> 62
 <211> 30
 <212> DNA
 <213> Homo sapien

<400> 62
 cgctcgagcc ctatagtgcg tcgtattaga 30

<210> 63
 <211> 89
 <212> DNA
 <213> Homo sapien

<400> 63
 acaagtcatt tcagcaccct ttgctcttca aaactgacca tcttttatat ttaatgcttc 60
 ctgtatgaat aaaaatggtt atgtcaagt 89

<210> 64
 <211> 97
 <212> DNA
 <213> Homo sapien

<400> 64
 accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa ggttctgcag 60
 aatcagtgc tccaggattg gtccttggat ctgggg 97

<210> 65
 <211> 377
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(377)
 <223> n = A,T,C or G

<400> 65
 acaacaanaa ntcccttctt taggcactg atggaaacct ggaacccctt tttgatggca 60
 gcatggcgct ctaggccttg acacagcggc tggggtttgg gctntcccaa accgcacacc 120

```

ccaaccctgg tctaccacaca nttctggcta tgggctgtct ctgccactga acatcagggt 180
tcggtcataa natgaaatcc caanggggac agaggtcagt agaggaagct caatgagaaa 240
ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaaccgc 300
tgggggtgaa ctaccccccag gaggaatcat gcctgggcga tgcaanggtg ccaacaggag 360
gggcgggagg agcatgt 377

```

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<210> 66
<211> 305
<212> DNA
<213> Homo sapien

```

```

<400> 66
acgcctttcc ctcagaattc agggaagaga ctgtcgcttg ccttctctcg ttgttgctg 60
agaaccgctg tgccccttcc caccatatcc accctcgctc catctttgaa ctcaaacacg 120
aggaaactaac tgcacctggt tctctctccc agtccccagt tcacctcca tccctcacct 180
tctctcactc taagggatat caacactgcc cagcacaggg gccctgaatt tatgtggttt 240
ttatatatatt ttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac 300
tggtt 305

```

```

<210> 67
<211> 385
<212> DNA
<213> Homo sapien

```

```

<400> 67
actacacaca ctccacttgc ctttgtgaga cactttgtcc cagcacttta ggaatgctga 60
ggtcggacca gccacatctc atgtgcaaga ttgccagca gacatcaggc ctgagagttc 120
ccctttttaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc 180
tgtgctgtgc tggagattca cttttgagag agttctctc tgagacctga tctttagagg 240
ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg 300
cctctccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgcccatac 360
catagtttct gtgctagtgg accgt 385

```

```

<210> 68
<211> 73
<212> DNA
<213> Homo sapien

```

```

<400> 68
acttaaccag atatattttt accccagatg gggatattct ttgtaaaaaa tgaaaataaa 60
gttttttttaa tgg 73

```

```

<210> 69
<211> 536
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(536)
<223> n = A,T,C or G

```

```

<400> 69
actagtccag tgtggtggaa ttccattgtg ttgggggctc tcacctcct ctctgcagc 60

```

tccagctttg	tgctctgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120
cctgctggcc	accctagctg	tggccctggc	ctggagcccc	aaggaggagg	ataggataat	180
cccggtggc	atctataacg	cagacctcaa	tgatgagtgg	gtacagcgtg	cccttcactt	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgtc	cgctgcgggt	300
actaagagcc	aggcaacaga	ccgttggggg	ggtgaattac	ttcttcgacg	tagaggtggg	360
ccgaaccata	tgtaccaagt	cccagcccaa	cttgacacc	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaacagt	tgtgctcttt	cgagatctac	gaagttccct	ggggagaaca	480
gaangtcctt	gggtgaaatc	caggtgtcaa	gaaatcctan	ggatctgttg	ccaggc	536

<210> 70
 <211> 477
 <212> DNA
 <213> Homo sapien

<400> 70						
atgaccccta	acaggggccc	tctcagccct	cctaatagacc	tccggcctag	ccatgtgatt	60
tcacttccac	tccataacgc	tcctcatact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaag	cacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatacg	ggataatcct	atttattacc	tcagaagttt	ttttcttcgc	240
agggatTTTT	ctgagccttt	taccactcca	gcctagcccc	taccccccaa	ctaggagggc	300
actggccccc	aacaggcatc	accccgctaa	atcccctaga	agtcccactc	ctaaacacat	360
ccgtattact	cgcatacagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420
accgaaacca	aattattcaa	agcactgctt	attacaattt	tactgggtct	ctattttt	477

<210> 71
 <211> 533
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(533)
 <223> n = A,T,C or G

<400> 71						
agagctatag	gtacagtgtg	atctcagctt	tgcaaacaca	ttttctacat	agatagtact	60
aggtattaat	agatatgtaa	agaaagaaat	cacaccatta	ataatggtaa	gattggttta	120
tgtgatttta	gtggattttt	tggcaccctt	atataatgtt	tccaaacttt	cagcagtgat	180
attattttcca	taacttaaaa	agtgagtttg	aaaaagaaaa	tctccagcaa	gcattctcatt	240
taaataaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gactttttta	aaaagctgtc	300
aaatagggtg	gaccctacta	ataattatta	gaaatacatt	taaaaacatc	gagtacctca	360
agtcagtttg	ccttgaaaaa	tatcaaatat	aactcttaga	gaaatgtaca	taaaagaatg	420
cttcgtaatt	ttggagtang	aggttccctc	ctcaattttg	tattttttaa	aagtacatgg	480
taaaaaaaaa	aattcacaa	agtatataag	gctgtaaaa	gaagaattct	gcc	533

<210> 72
 <211> 511
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(511)
 <223> n = A,T,C or G


```

<400> 72
tattacggaa aaacacacca cataattcaa ctancaaaga anactgcttc agggcggtga      60
aaatgaaagg cttccaggca gttatctgat taaagaacac taaaagaggg acaaggctaa      120
aagccgcagg atgtctacac tatancaggc gctatttggg ttggctggag gagctgtgga      180
aaacatggan agattgggtgc tgganacgc cgtggctatt cctcattgtt attacanagt      240
gaggttctct gtgtgcccac tggtttgaaa accgttctnc aataatgata gaatagtaca      300
cacatgagaa ctgaaatggc ccaaaccag aaagaaagcc caactagatc ctcagaanac      360
gcttctaggg acaataaccg atgaagaaaa gatggcctcc ttgtgcccc gtctgttatg      420
atttctctcc attgcagcna naaaccggtt cttctaagca aacncagggt atgatggcna      480
aaatacacc cctcttgaag naccnggagg a                                     511

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<210> 73
<211> 499
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(499)
<223> n = A,T,C or G

```

```

<400> 73
cagtgccagc actggtgcca gtaccagtac caataacagt gccagtgccca gtgccagcac      60
cagtgggtggc ttcagtgtct gtgccagcct gaccgccact ctcacatttg ggctcttcgc      120
tggccttggg ggagctggtg ccagcaccag tggcagctct ggtgcctgtg gtttctccta      180
caagtgaagt tttagatatt gttaatcctg ccagtctttc tcttcaagcc aggggtgcac      240
ctcagaaacc tactcaacac agcactctag gcagccacta tcaatcaatt gaagtgcaca      300
ctctgcatta aatctatttg ccatttctga aaaaaaaaaa aaaaaaaggg cggccgctcg      360
antctagagg gcccgtttaa acccgctgat cagcctcgac tgtgccttct anttgccagc      420
catctgttgt ttgcccctcc cccgntgect tccttgaccc tggaaaagtgc cactcccact      480
gtcctttcct aantaaaat                                     499

```

```

<210> 74
<211> 537
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(537)
<223> n = A,T,C or G

```

```

<400> 74
tttcatagga gaacacactg aggagatact tgaagaattt ggattcagcc gcgaagagat      60
ttatcagctt aactcagata aaatcattga aagtaataag gtaaaagcta gtctctaact      120
tccaggccca cggctcaagt gaatttgaat actgcattta cagtgtagag taacacataa      180
cattgtatgc atggaaacat ggaggaacag tattacagtg tcctaccact ctaatcaaga      240
aaagaattac agactctgat tctacagtga tgattgaatt ctaaaaatgg taatcattag      300
ggcttttgat ttataanact ttgggtactt atactaaatt atggtagtta tactgccttc      360
cagtttgctt gatataattg ttgatattaa gattcttgac ttatattttg aatgggttct      420
actgaaaaan gaatgatata ttcttgaaga catcgatata catttattta cactcttgat      480
tctacaatgt agaaaatgaa ggaaatgcc caaattgtat ggtgataaaa gtccccgt      537

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<210> 75
 <211> 467
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(467)
 <223> n = A,T,C or G

<400> 75
 caaanacaat tgttcaaaaag atgcaaatga tacactactg ctgcagctca caaacacctc 60
 tgcataattac acgtacctcc tctgtctcct caagtagtgt ggtctatatt gccatcatca 120
 cctgctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg 180
 tggcacaagg aggccatctt ttctctcatcg gttattgtcc ctagaagcgt cttctgagga 240
 tctagttggg ctttctttct gggtttgggc catttcantt ctcattgtgtg tactattcta 300
 tcattattgt ataacgggtt tcaaaccngt gggcacncag agaacctcac tctgtaataa 360
 caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc 420
 ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccctgn 467

<210> 76
 <211> 400
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(400)
 <223> n = A,T,C or G

<400> 76
 aagctgacag cattcgggcc gagatgtctc gctccgtggc cttagctgtg ctgcgcgtac 60
 tctctctttc tggcctggag gctatccagc gtactccaaa gattcagggt tactcacgtc 120
 atccagcaga gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg ttcatccat 180
 ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag 240
 acttgtcttt cagcaaggac tggctttct atctcttgta ctacactgaa ttcaccccca 300
 ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng 360
 ttnagtggga tcganacatg taagcagcan catgggaggt 400

<210> 77
 <211> 248
 <212> DNA
 <213> Homo sapien

<400> 77
 ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct 60
 ccagctgccc cggcggggga tgcgaggtcc ggagcaccct tgcccggctg tgattgctgc 120
 caggcaactgt tcattctcagc ttttctgtcc ctttgcctcc ggcaagcgt tctgctgaaa 180
 gttcatatct ggagcctgat gtcttaacga ataaaggctc catgctccac ccgaaaaaaa 240
 aaaaaaaa 248

<210> 78
 <211> 201
 <212> DNA

<213> Homo sapien

<400> 78

actagtccag	tgtggtggaa	ttccattgtg	ttggggcccaa	cacaatggct	acctttaaca	60
tcacccagac	cccgccctgc	ccgtgcccc	cgctgctgct	aacgacagta	tgatgcttac	120
tctgctactc	ggaaactatt	tttatgtaat	taatgtatgc	tttcttggtt	ataaatgcct	180
gatttaaaaa aaaaaaaaaa a						201

<210> 79

<211> 552

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(552)

<223> n = A,T,C or G

<400> 79

tccttttggt	aggtttttga	gacaacccta	gacctaaact	gtgtcacaga	cttctgaatg	60
tttaggcagt	gctagtaatt	tcctcgtaat	gattctgtta	ttactttcct	attctttatt	120
cctctttcct	ctgaagatta	atgaagttga	aaattgaggt	ggataaatac	aaaaaggtag	180
tgtgatagta	taagtatcta	agtgcagatg	aaagtgtggt	atatatatcc	attcaaaatt	240
atgcaagtta	gtaattactc	agggttaact	aaattacttt	aatatgctgt	tgaacctact	300
ctgttccttg	gctagaaaaa	attataaaca	ggactttggt	agtttgggaa	gccaaattga	360
taatatctta	tgttctaaaa	gttgggctat	acataaanta	tnaagaaata	tggaatttta	420
ttcccaggaa	tatgggggttc	atztatgaat	antacccggg	anagaagttt	tgantnaaac	480
cngttttggt	taatacgtta	atatgtcctn	aatnaacaag	gcntgactta	tttccaaaaa	540
aaaaaaaaaa aa						552

<210> 80

<211> 476

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(476)

<223> n = A,T,C or G

<400> 80

acagggattt	gagatgctaa	ggccccagag	atcgtttgat	ccaaccctct	tattttcaga	60
ggggaaaaatg	gggcctagaa	gttacagagc	atctagctgg	tgcgctggca	cccctggcct	120
cacacagact	cccgagtagc	tgggactaca	ggcacacagt	cactgaagca	ggccctgttt	180
gcaattcacg	ttgccacctc	caacttaaac	attcttcata	tgtgatgtcc	ttagtcacta	240
aggttaaact	ttcccaccca	gaaaaggcaa	cttagataaa	atcttagagt	actttcatac	300
tcttctaagt	cctcttccag	cctcactttg	agtccctcct	gggggttgat	aggaantntc	360
tcttggtttt	ctcaataaaa	tctctatcca	tctcatgttt	aatttggtac	gcntaaaaat	420
gctgaaaaaa	ttaaaatggt	ctggtttcnc	tttaaaaaaa	aaaaaaaaaa	aaaaaa	476

<210> 81

<211> 232

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(232)
 <223> n = A,T,C or G

<400> 81
 tttttttttg tatgcntcn ctgtgngtt attgttgctg ccaccctgga ggagcccagt 60
 ttctttctgta tctttctttt ctgggggatc ttcctggctc tgcccctcca ttcccagcct 120
 ctcaccccca tcttgcaact ttgctagggt tggaggcgct ttcttggttag cccctcagag 180
 actcagtcag cggaataag tcctaggggt ggggggtgtg gcaagccggc ct 232

<210> 82
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 82
 aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60
 agtaccagta ccaataacat gccagtgccg gtgccagcac cagtgggtggc ttcagtgtctg 120
 gtgccagcct gaccgccact ctcacatttg ggctcttcgc tggccttggg ggagctggtg 180
 ccagcaccag tggcagctct ggtgcctgtg gtttctccta caagtgagat tttagatatt 240
 gttaatcctg ccagtctttc tcttcaagcc aggggtgcac ctcagaaacc tactcaacac 300
 agcactctng gcagccacta tcaatcaatt gaagttgaca ctctgcatta aatctatttg 360
 ccatttcaaa aaaaaaaaaa aaa 383

<210> 83
 <211> 494
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(494)
 <223> n = A,T,C or G

<400> 83
 accgaattgg gaccgctggc ttataagcga tcatgtcctc cagtattacc tcaacgagca 60
 gggagatcga gtctatacgc tgaagaaatt tgaccgatg ggacaacaga cctgctcagc 120
 ccatcctgct cggttctccc cagatgacaa atactctcga caccgaatca ccatcaagaa 180
 acgcttcaag gtgctcatga cccagcaacc gcgccctgtc ctctgagggt ccttaaactg 240
 atgtcttttc tgccacctgt taccctctcg agactccgta accaaactct tcggactgtg 300
 agccctgatg cctttttgcc agccatactc tttggentcc agtctctcgt ggcgattgat 360
 tatgcttggt tgaggcaatc atggtggcat caccatnaa gggaacacat ttganTTTT 420
 tttcncatat tttaaattac naccagaata nttcagaata aatgaattga aaaactctta 480
 aaaaaaaaaa aaaa 494

<210> 84
 <211> 380

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(380)
 <223> n = A,T,C or G

<400> 84
 gctggtagcc tatggcgtgg ccacggangg gctcctgagg cacgggacag tgacttccca 60
 agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag 120
 gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggcttcttg 180
 gcacaccctc ctggggccca ggcgggcacc tgcgtctccc agtatgcaa ctggctggtg 240
 gtgctgctcc tgcctcatctt cctgctcgtg gccaacatcc tgctggtcac ttgctcattg 300
 ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc 360
 agcgttncgg cctcatccgg 380

<210> 85
 <211> 481
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(481)
 <223> n = A,T,C or G

<400> 85
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggccctctcgc ttcataccgc 60
 tnccatcgtc atactgtagg tttgccacca cctcctgcat cttggggcgg ctaatatcca 120
 ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg 180
 tgtgaaagga tctccagaag gagtgtctga tcttccccac acttttgatg actttattga 240
 gtgattctg catgtccagc aggaggttgt accagctctc tgacagtgag gtcaccagcc 300
 ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggg gnagtctcac 360
 ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa 420
 aaagaacacc tcttggaagt gctngccgct cctcgtccnt tgggtggngc gcntnecctt 480
 t 481

<210> 86
 <211> 472
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(472)
 <223> n = A,T,C or G

<400> 86
 aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt 60
 acttggaaaa gcaacttnaa gcctggacac tgggtattaaa attcacaata tgcaacactt 120
 taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taagggtatg 180
 ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga 240
 cacaagtccg aaaaaagcaa aagtaaacag ttnttaattt gttagccaat tcactttctt 300

```

catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttgggagctg      360
atatntgagc ggaagantag cttttctact tcaccagaca caactccttt catattggga      420
tgtnnacnaa agttatgtct cttacagatg ggatgctttt gtggcaattc tg              472

```

```

<210> 87
<211> 413
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(413)
<223> n = A,T,C or G

```

```

<400> 87
agaaaccagt atctctnaaa acaacctctc ataccttgtg gacctaatTT tgtgtgcgtg      60
tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg      120
cctcttttgg atctatatct gtgaaagtTT taatgatctg ccataatgtc ttggggacct      180
ttgtcttctg tgtaaattgg actagagaaa acacctatnt tatgagtcaa tctagttngt      240
tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc cttgactagg      300
ggggacaaag aaaagcanaa ctgaacatna gaaacaattn cctggtgaga aattncataa      360
acagaaattg ggtngtatat tgaaananng catcattnaa acgttttttt ttt              413

```

```

<210> 88
<211> 448
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(448)
<223> n = A,T,C or G

```

```

<400> 88
cgcagcgggt cctctctatc tagctccagc ctctcgcttg cccactccc cgcgccccgc      60
gtcctagccn accatggccg ggcccctgcg cgccccgctg ctctgtgtgg ccacctctggc      120
cgtggccctg gccgtgagcc ccgcggccgg ctccagtccc ggcaagccgc cgcgcttggg      180
gggaggccca tggaccccgc gtggaagaag aagggtgtgc gcgtgcactg gactttgccg      240
tcggcnanta caacaaaccc gcaacnactt ttaccnagcn cgcgctgcag gttgtgccgc      300
cccaancaaa ttgttactng gggttaantaa ttcttggaag ttgaacctgg gccaaacnng      360
tttaccagaa ccnagccaat tngaacaatt nccccccat aacagcccct tttaaaaagg      420
gaancantcc tgntcttttc caaatTTT              448

```

```

<210> 89
<211> 463
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

```

```

<400> 89

```

```

gaattttgtg cactggccac tgtgatggaa ccattgggcc aggatgcttt gagtttatca      60
gtagtgattc tgccaaagtt ggtgttgtaa catgagtatg taaaatgtca aaaaattagc      120
agaggtctag gtctgcatat cagcagacag tttgtccgtg tatttttagt ccttgaagtt      180
ctcagtgaca agttnnttct gatgcgaagt tctnattcca gtgttttagt cctttgcatc      240
tttnatgttn agacttgcct ctntnaaatt gcttttgnt tctgcaggta ctatctgtgg      300
ttaaacaata tagaannact tctctgcttn gaanatttga atatcttaca tctnaaaatn      360
aattctctcc ccatannaaa acccangccc ttggganaat ttgaaaaang gntccttcnn      420
aattcnnana anttcagntn tcatacaaca naacngganc ccc                          463

```

```

<210> 90
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

```

```

<400> 90
agggattgaa ggtctnttnt actgtcggac tgttcancca ccaactctac aagttgctgt      60
cttcactca ctgtctgtaa gcntnttaac ccagactgta tcttcataaa tagaacaata      120
tcttcaccag tcacatcttc taggaccttt ttggattcag ttagtataag ctcttcact      180
tcctttgtta agacttcac tcgttaaagtc ttaagttttg tagaaaggaa ttaattgct      240
cgttctctaa caatgtcctc tccttgaagt atttggctga acaaccacc tnaagtcct      300
ttgtgcatcc attttaata tacttaatag ggcattggtn cactagggtta aattctgcaa      360
gagtcactct tctgcaaaag ttgcgttagt atatctgccca                          400

```

```

<210> 91
<211> 480
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```

<400> 91
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact      60
ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac      120
atgcctcttt gactaccgtg tgccagtgtt ggtgattctc acacacctcc nnccgctctt      180
tgtggaaaaa ctggcacttg nctggaacta gcaagacatc acttacaat tcacccacga      240
gacacttgaa aggtgtaaca aagcgactct tgcattgctt tttgtccctc cggcaccagt      300
tgtcaatact aaccgctggt tttgcctcca tcacatttgt gatctgtagc tctggataca      360
tctcctgaca gtactgaaga acttcttctt ttgtttcaaa agcaactctt ggtgcctgtt      420
ngatcagggt cccatttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa      480

```

```

<210> 92
<211> 477
<212> DNA
<213> Homo sapien

```

```

<220>

```

<221> misc_feature
 <222> (1)...(477)
 <223> n = A,T,C or G

<400> 92
 atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60
 ggtcccgtg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt 120
 cccacgcagg cagcagcggg gccggtcaat gaactccact cgtggcttgg gggtgacggg 180
 taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccgact gtgcgggacc 240
 tgcagcgaaa ctccctcgatg gtcatgagcg ggaagcgaat gangcccagg gccttgccca 300
 gaaccttccg cctgtttctt ggcgtcacct gcagctgctg ccgctnacac tcggcctcgg 360
 accagcggac aaacggcggt gaacagccgc acctcacgga tgcccantgt gtcgcgctcc 420
 aggaacggcn ccagcgtgtc caggtcaatg tcggtgaanc ctccgcgggt aatggcg 477

<210> 93
 <211> 377
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(377)
 <223> n = A,T,C or G

<400> 93
 gaacggctgg accttgccct gcattgtgct gctggcagga ataccttggc aagcagctcc 60
 agtccgagca gccccagacc gctgccgccc gaagctaagc ctgcctctgg ccttcccctc 120
 cgcctcaatg cagaaccant agtgggagca ctgtgttttag agttaagagt gaacactgtg 180
 tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaata ttccaaacaa 240
 caacaacaaa ataacatgtt tgccctgttna gttgtataaaa agtangtgat tctgtatnta 300
 aagaaaatat tactgttaca tatactgctt gcaanttctg tattttattgg tncctctggaa 360
 ataaatatat tattaaa 377

<210> 94
 <211> 495
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(495)
 <223> n = A,T,C or G

<400> 94
 ccctttgagg ggtaggggtc cagttcccag tggaagaaac aggccaggag aantgcgtgc 60
 cgagctgang cagatttccc acagtgacct cagagccctg ggctatagtc tctgacctt 120
 ccaaggaaa accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg 180
 gaaggcccca ttccggggct gttcccagag gaggaaggga aggggctctg tgtgcccccc 240
 acgaggaana ggccctgant cctgggatca nacaccctt cacgtgtatc cccacacaaa 300
 tgcaagctca ccaaggtccc ctctcagtc cttccctaca ccctgaacgg nacttgccc 360
 acaccacccc agancancca cccgccatgg ggaatgtnc caaggaatcg cngggcaacg 420
 tggactctng tccnnaagg gggcagaatc tccaatagan gganngaacc cttgctnana 480
 aaaaaaana aaaaa 495

<210> 95
 <211> 472
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(472)
 <223> n = A,T,C or G

```
<400> 95
ggttacttggt tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc      60
cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt      120
tagctgtttt gagttgattc gcaccactgc accacaactc aatatgaaaa ctatttnact      180
tatttattat cttgtgaaaa gtatacaatg aaaattttgt tcatactgta tttatcaagt      240
atgatgaaaa gcaatagata tatattcttt tattatgttn aattatgatt gccattatta      300
atcggcaaaa tgtggagtgt atgttctttt cacagtaata tatgcctttt gtaacttcac      360
ttggttattt tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata      420
tttanttcan taatttcttt ccttgtttac gttaattttg aaaagaatgc at              472
```

<210> 96
 <211> 476
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(476)
 <223> n = A,T,C or G

```
<400> 96
ctgaagcatt tcttcaaact tntctacttt tgtcattgat acctgtagta agttgacaat      60
gtggtgaaat ttcaaaaatta tatgtaactt ctactagttt tacttttctcc cccaagtctt      120
ttttaactca tgattttttac acacacaatc cagaacttat tatatagcct ctaagtcttt      180
attcttcaca gtagatgatg aaagagtcct ccagtgtctt gngcanaatg ttctagntat      240
agctggatac atacngtggg agttctataa actcatacct cagtgggact naaccaaaaat      300
tgtgttagtc tcaattccta ccacactgag ggagcctccc aaatcactat attcttatct      360
gcaggtactc ctccagaaaa acngacaggg caggcttgca tgaaaaagtn acatctgcgt      420
tacaaagtct atcttctctca nangtctgtn aaggaacaat ttaatcttct agcttt      476
```

<210> 97
 <211> 479
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

```
<400> 97
actcttttcta atgctgatat gatcttgagt ataagaatgc atatgtcact agaatggata      60
aaataatgct gcaaaacttaa tgttcttatg caaaatggaa cgctaataa acacagctta      120
caatcgcaaa tcaaaactca caagtgtctc tctgtttagt atttagtgta ataagactta      180
```

gattgtgctc	cttcggatat	gattgtttct	canatcttgg	gcaatnttcc	ttagtcaaat	240
caggctacta	gaattctgtt	attggatatn	tgagagcatg	aaatttttaa	naatacactt	300
gtgattatna	aattaatcac	aaatttcact	tatacctgct	atcagcagct	agaaaaacat	360
ntnnttttta	natcaaagta	ttttgtgttt	ggaantgtnn	aaatgaaatc	tgaatgtggg	420
ttcnatctta	ttttttcccn	gacnactant	tnctttttta	gggnctattc	tganccatc	479

<210> 98

<211> 461

<212> DNA

<213> Homo sapien

<400> 98

agtgacttgt	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
tgctagtctc	tgtcatctat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaatctatt	cctacttgta	cggactttga	180
agtgattcag	tttctcttac	ggatgagaga	ctggctcaag	aatatcctca	tgcagcttta	240
tgaagccact	ctgaacacgc	tggttatcta	gatgagaaca	gagaaataaa	gtcagaaaat	300
ttacctggag	aaaagaggct	ttggctgggg	accatcccat	tgaaccttct	cttaaggact	360
ttaagaaaaa	ctaccacatg	ttgtgtatcc	tgggtccggc	cgtttatgaa	ctgaccaccc	420
tttgaataaa	tcttgacgct	cctgaacttg	ctcctctgcg	a		461

<210> 99

<211> 171

<212> DNA

<213> Homo sapien

<400> 99

gtggccgcgc	gcagggtgtt	cctcgtagcg	cagggccccc	tcccttcccc	aggcgccct	60
cggcgccctc	gcggggccga	ggaggagcgg	ctggcggtg	gggggagtgt	gacccaccct	120
cggtgagaaa	agccttctct	agcgatctga	gaggcggtcc	ttgggggtac	c	171

<210> 100

<211> 269

<212> DNA

<213> Homo sapien

<400> 100

cggccgcaag	tgcaactcca	gctggggcgc	tgccgacgaa	gattctgcca	gcagttggtc	60
cgactgcgac	gacggcggcg	gcgacagtcg	cagggtgcagc	gcgggcgcct	ggggtcttgc	120
aaggctgagc	tgacgccgca	gaggtcgtgt	cacgtcccac	gaccttgacg	ccgtcgggga	180
cagccggaac	agagcccggg	gaagcgggag	gcctcgggga	gcccctcggg	aagggcggcc	240
cgagagatac	gcagggtgcg	gtggccgcgc				269

<210> 101

<211> 405

<212> DNA

<213> Homo sapien

<400> 101

tttttttttt	ttttggaatc	tactgcgagc	acagcaggtc	agcaacaagt	ttatttttgca	60
gctagcaagg	taacagggta	gggcatgggt	acatgttcag	gtcaacttcc	tttgtcgtgg	120
ttgattgggt	tgtctttatg	ggggcggggg	ggggtagggg	aaacgaagca	aataacatgg	180
agtgggtgca	ccctccctgt	agaacctggg	tacaaagctt	ggggcagttc	acctggtctg	240
tgacctgcat	tttcttgaca	tcaatgttat	tagaagtcag	gatattcttt	agagagtcca	300

```

ctgtttctgga gggagattag ggtttcttgc caaatccaac aaaatccact gaaaaagttg 360
gatgatcagt acgaataccg aggcatattc tcatatcggt ggcca 405

```

```

<210> 102
<211> 470
<212> DNA
<213> Homo sapien

```

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<400> 102
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<210> 103
<211> 581
<212> DNA
<213> Homo sapien

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<400> 103
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<210> 104
<211> 578
<212> DNA
<213> Homo sapien

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<211> 538

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<212> DNA

<213> Homo sapien

<400> 105

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<210> 106

<211> 473

<212> DNA

<213> Homo sapien

<400> 106

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<210> 107

<211> 1621

<212> DNA

<213> Homo sapien

<400> 107

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a                                                                 1621

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<210> 108
<211> 382
<212> PRT
<213> Homo sapien

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<400> 108
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Arg Val Asp Arg Pro Gly Ser Arg Tyr Asp Val Ser Arg Leu Gly Arg
35          40          45
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
50          55          60
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
65          70          75          80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln
85          90          95
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln
100         105         110
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala
115         120         125
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr
130         135         140
Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Gly Leu Met Cys
145         150         155         160
Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
165         170         175
Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
180         185         190
Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg
195         200         205
Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg
210         215         220
Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe
225         230         235         240
Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro
245         250         255
Asn Gln Met Ser Met Asp Asp Trp Pro Glu Met Lys Lys Lys Phe Ala
260         265         270
Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp
275         280         285
Gly Thr Asp Ala Cys Val Thr Pro Val Leu Thr Phe Glu Glu Val Val
290         295         300

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His His Asp His Asn Lys Glu Arg Gly Ser Phe Ile Thr Ser Glu Glu
 305 310 315 320
 Gln Asp Val Ser Pro Arg Pro Ala Pro Leu Leu Leu Asn Thr Pro Ala
 325 330 335
 Ile Pro Ser Phe Lys Arg Asp Pro Phe Ile Gly Glu His Thr Glu Glu
 340 345 350
 Ile Leu Glu Glu Phe Gly Phe Ser Arg Glu Glu Ile Tyr Gln Leu Asn
 355 360 365
 Ser Asp Lys Ile Ile Glu Ser Asn Lys Val Lys Ala Ser Leu
 370 375 380

<210> 109
 <211> 1524
 <212> DNA
 <213> Homo sapien

<400> 109
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<210> 110
 <211> 3410
 <212> DNA
 <213> Homo sapien

<400> 110
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<210> 111
 <211> 1289
 <212> DNA
 <213> Homo sapien

<400> 111

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<210> 112
 <211> 315
 <212> PRT
 <213> Homo sapien

<400> 112

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			20					25					30		
Phe	Phe	Leu	Phe	Phe	Leu	Gly	Val	Trp	Leu	Val	Ala	Tyr	Gly	Val	Ala
		35					40					45			
Thr	Glu	Gly	Leu	Leu	Arg	Pro	Arg	Asp	Ser	Asp	Phe	Pro	Ser	Ile	Leu
	50					55					60				
Arg	Arg	Val	Phe	Tyr	Arg	Pro	Tyr	Leu	Gln	Ile	Phe	Gly	Gln	Ile	Pro
65					70				75					80	
Gln	Glu	Asp	Met	Asp	Val	Ala	Leu	Met	Glu	His	Ser	Asn	Cys	Ser	Ser
				85					90					95	
Glu	Pro	Gly	Phe	Trp	Ala	His	Pro	Pro	Gly	Ala	Gln	Ala	Gly	Thr	Cys
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Val	Ser	Gln	Tyr	Ala	Asn	Trp	Leu	Val	Val	Leu	Leu	Leu	Val	Ile	Phe
		115					120					125			
Leu	Leu	Val	Ala	Asn	Ile	Leu	Val	Asn	Leu	Leu	Ile	Ala	Met	Phe	
	130					135					140				
Ser	Tyr	Thr	Phe	Gly	Lys	Val	Gln	Gly	Asn	Ser	Asp	Leu	Tyr	Trp	Lys

145					150					155					160
Ala	Gln	Arg	Tyr	Arg	Leu	Ile	Arg	Glu	Phe	His	Ser	Arg	Pro	Ala	Leu
				165					170					175	
Ala	Pro	Pro	Phe	Ile	Val	Ile	Ser	His	Leu	Arg	Leu	Leu	Leu	Arg	Gln
			180					185					190		
Leu	Cys	Arg	Arg	Pro	Arg	Ser	Pro	Gln	Pro	Ser	Ser	Pro	Ala	Leu	Glu
		195					200					205			
His	Phe	Arg	Val	Tyr	Leu	Ser	Lys	Glu	Ala	Glu	Arg	Lys	Leu	Leu	Thr
	210					215					220				
Trp	Glu	Ser	Val	His	Lys	Glu	Asn	Phe	Leu	Leu	Ala	Arg	Ala	Arg	Asp
225					230					235					240
Lys	Arg	Glu	Ser	Asp	Ser	Glu	Arg	Leu	Lys	Arg	Thr	Ser	Gln	Lys	Val
				245					250					255	
Asp	Leu	Ala	Leu	Lys	Gln	Leu	Gly	His	Ile	Arg	Glu	Tyr	Glu	Gln	Arg
		260						265					270		
Leu	Lys	Val	Leu	Glu	Arg	Glu	Val	Gln	Gln	Cys	Ser	Arg	Val	Leu	Gly
	275					280						285			
Trp	Val	Ala	Glu	Ala	Leu	Ser	Arg	Ser	Ala	Leu	Leu	Pro	Pro	Gly	Gly
	290					295					300				
Pro	Pro	Pro	Pro	Asp	Leu	Pro	Gly	Ser	Lys	Asp					
305					310					315					

<210> 113

<211> 553

<212> PRT

<213> Homo sapien

<400> 113

Met	Val	Gln	Arg	Leu	Trp	Val	Ser	Arg	Leu	Leu	Arg	His	Arg	Lys	Ala
1				5					10					15	
Gln	Leu	Leu	Leu	Val	Asn	Leu	Leu	Thr	Phe	Gly	Leu	Glu	Val	Cys	Leu
			20					25					30		
Ala	Ala	Gly	Ile	Thr	Tyr	Val	Pro	Pro	Leu	Leu	Leu	Glu	Val	Gly	Val
		35					40					45			
Glu	Glu	Lys	Phe	Met	Thr	Met	Val	Leu	Gly	Ile	Gly	Pro	Val	Leu	Gly
	50					55					60				
Leu	Val	Cys	Val	Pro	Leu	Leu	Gly	Ser	Ala	Ser	Asp	His	Trp	Arg	Gly
65					70					75					80
Arg	Tyr	Gly	Arg	Arg	Arg	Pro	Phe	Ile	Trp	Ala	Leu	Ser	Leu	Gly	Ile
				85					90					95	
Leu	Leu	Ser	Leu	Phe	Leu	Ile	Pro	Arg	Ala	Gly	Trp	Leu	Ala	Gly	Leu
			100					105					110		
Leu	Cys	Pro	Asp	Pro	Arg	Pro	Leu	Glu	Leu	Ala	Leu	Leu	Ile	Leu	Gly
		115					120					125			
Val	Gly	Leu	Leu	Asp	Phe	Cys	Gly	Gln	Val	Cys	Phe	Thr	Pro	Leu	Glu
	130					135					140				
Ala	Leu	Leu	Ser	Asp	Leu	Phe	Arg	Asp	Pro	Asp	His	Cys	Arg	Gln	Ala
145					150					155					160
Tyr	Ser	Val	Tyr	Ala	Phe	Met	Ile	Ser	Leu	Gly	Gly	Cys	Leu	Gly	Tyr
				165					170					175	
Leu	Leu	Pro	Ala	Ile	Asp	Trp	Asp	Thr	Ser	Ala	Leu	Ala	Pro	Tyr	Leu
		180						185					190		
Gly	Thr	Gln	Glu	Glu	Cys	Leu	Phe	Gly	Leu	Leu	Thr	Leu	Ile	Phe	Leu
	195						200					205			

Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly
 210 215 220
 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His
 225 230 235 240
 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu
 245 250 255
 Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg
 260 265 270
 Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe
 275 280 285
 Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val
 290 295 300
 Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
 305 310 315 320
 Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu
 325 330 335
 Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg
 340 345 350
 Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala
 355 360 365
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
 370 375 380
 Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala
 385 390 395 400
 Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly
 405 410 415
 Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu
 420 425 430
 Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala
 435 440 445
 Gly Gly Ser Gly Leu Leu Pro Pro Pro Ala Leu Cys Gly Ala Ser
 450 455 460
 Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala
 465 470 475 480
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
 485 490 495
 Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser
 500 505 510
 Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala
 515 520 525
 Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp
 530 535 540
 Lys Ser Asp Leu Ala Lys Tyr Ser Ala
 545 550

<210> 114

<211> 241

<212> PRT

<213> Homo sapien

<400> 114

Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu
 1 5 10 15
 Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val

[illegible]

```
<210> 115
<211> 366
<212> DNA
<213> Homo sapien
```

<400>	115						
gctctttctc	tccctctctc	tgaatttaat	tctttcaact	tgcaatttgc	aaggattaca		60
catttcactg	tgatgtatat	tgtgttgcaa	aaaaaaaaaa	gtgtctttgt	ttaaaattac		120
ttggtttgtg	aatccatctt	gctttttccc	cattggaact	agtcattaac	ccatctctga		180
actggtagaa	aaacatctga	agagctagtc	tatcagcctc	tgacagggtga	attggatggg		240
tctcagaacc	atttcaccca	gacagcctgt	ttctatcctg	tttaataaat	tagtttgggt		300
tctctacatg	cataacaaac	cctgctccaa	tctgtcacat	aaaagtctgt	gacttgaagt		360
ttagtc							366

```
<210> 116
<211> 282
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G
```

```

<400> 116
acaaagatga accatttcct atattatagc aaaattaaaa tctaccgta ttctaattatt      60
gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa      120
agactttact attttcataat tttaagacac atgatttatc ctattttagt aacctgggtc      180
atacgttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt      240
tcaatctnga actatctana tcacagacat ttctattcct tt                          282

```

```

<210> 117
<211> 305
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(305)
<223> n = A,T,C or G

```

```

<400> 117
acacatgtcg cttcactgcc ttcttagatg cttctgggtca acatanagga acagggacca      60
tattttatcct ccctcctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa      120
aataaggcaa aatatatgaa acaacaggtc tcgagatatt ggaaatcagt caatgaagga      180
tactgatccc tgatcactgt cctaatgcag gatgtgggaa acagatgagg tcacctctgt      240
gactgcccca gcttactgcc tgtagagagt ttctangctg cagttcagac agggagaaat      300
tggtt                                           305

```

```

<210> 118
<211> 71
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(71)
<223> n = A,T,C or G

```

```

<400> 118
accaaggtgt ntgaatctct gacgtgggga tctctgattc ccgcacaatc tgagtggaaa      60
aantcctggg t                                           71

```

```

<210> 119
<211> 212
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(212)
<223> n = A,T,C or G

```

```

<400> 119
actccggttg gtgtcagcag cacgtggcat tgaacatngc aatgtggagc ccaaaccaca      60
gaaaatgggg tgaaattggc caactttcta tnaacttatg ttggcaantt tgccaccaac      120
agtaagctgg cccttctaataaaaagaaat tgaaagggtt ctcactaanc ggaattaant      180
aatggantca aganactccc aggcctcagc gt                          212

```

<210> 120
 <211> 90
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(90)
 <223> n = A,T,C or G

<400> 120
 actcgttgca natcaggggc cccccagagt caccgttgca ggagtccttc tggctcttgcc 60
 ctccgccggc gcagaacatg ctgggggtggt 90

<210> 121
 <211> 218
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(218)
 <223> n = A,T,C or G

<400> 121
 tgtancgtga anacgacaga naggggtgtc aaaaatggag aanccttgaa gtcattttga 60
 gaataagatt tgctaaaaga tttggggcta aaacatgggtt attgggagac atttctgaag 120
 atatncangt aaattangga atgaattcat ggttcttttg ggaattcctt tacgatngcc 180
 agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 122
 taggggtgta tgcaactgta aggacaaaaa ttgagactca actggcttaa ccaataaagg 60
 catttgtagt ctcatggaac aggaagtcgg atggtggggc atcttcagtg ctgcatgagt 120
 caccaccccg gcgggggtcat ctgtgccaca ggtccctgtt gacagtgcgg t 171

<210> 123
 <211> 76
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(76)
 <223> n = A,T,C or G

<400> 123
 tgtagcgtga agacnacaga atggtgtgtg ctgtgctatc caggaacaca tttattatca 60
 ttatcaanta ttgtgt 76

<210> 124
 <211> 131
 <212> DNA
 <213> Homo sapien

<400> 124
 acctttcccc aaggccaatg tcctgtgtgc taactggccg gctgcaggac agctgcaatt 60
 caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120
 ttaagatttg t 131

<210> 125
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 125
 actttatcta ctggctatga aatagatggg ggaaaattgc gttaccaact ataccactgg 60
 cttgaaaaag aggtgatagc tcttcagagg acttgtgact tttgctcaga tgctgaagaa 120
 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180
 ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240
 ctcttgaagt atcagtcact ttgagaatg tttcttagtt actgcatact tcatggatcc 300
 catgggtgggg gtcttgcacg tgtaagaatg gaattgattt tgcttttgca agaattctcag 360
 caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccctc agtgcctctc 420
 ctctttgctt gt 432

<210> 126
 <211> 112
 <212> DNA
 <213> Homo sapien

<400> 126
 acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60
 agtaagaatg atatttcccc ccaggggatca ccaaatattt ataaaaattt gt 112

<210> 127
 <211> 54
 <212> DNA
 <213> Homo sapien

<400> 127
 accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128
 <211> 323
 <212> DNA
 <213> Homo sapien

<400> 128
 acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc 60
 acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 120
 ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc 180
 ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt 240
 ttcttgcaaa aggtcactc agtcccttgc ttgctcagtg gactgggctc cccagggcct 300

aggctgcctt cttttccatg tcc

323

<210> 129

<211> 192

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(192)

<223> n = A,T,C or G

<400> 129

acatacatgt gtgtatatatt tttaaataatca cttttgtatc actctgactt tttagcatatc	60
tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcatc	120
tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg	180
gataaacaaa gt	192

<210> 130

<211> 362

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(362)

<223> n = A,T,C or G

<400> 130

ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca	60
tataatgacg caacaaaaag gtgctgttta gtcttatggt tcagtttatg cccctgacaa	120
gtttccattg tgttttgccg atcttctggc taatcgtggg atcctccatg ttattagtaa	180
ttctgtattc ctttttgtaa acgcctggta gatgtaacct gctangaggc taactttata	240
cttatttaaa agctcttatt ttgtgggcat taaaatggca atttatgtgc agcactttat	300
tgcagcagga agcacgtgtg ggttggttgt aaagctcttt gctaattcta aaaagtaatg	360
gg	362

<210> 131

<211> 332

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(332)

<223> n = A,T,C or G

<400> 131

ctttttgaaa gatcgtgtcc actcctgtgg acatcttgtt ttaatggagt ttcccatgca	60
gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga	120
gttctcccag gttcgccctg ctgctccaag tctcagcagc agcctctttt aggaggcatc	180
ttctgaacta gattaaggca gcttgtaaat ctgatgtgat ttgggtttatt atccaactaa	240
cttccatctg ttatcactgg agaaagccca gactcccan gacnggtacg gattgtgggc	300
atanaaggat tgggtgaagc tggcgttgtg gt	332

<210> 132
 <211> 322
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(322)
 <223> n = A,T,C or G

<400> 132
 acttttgcca ttttgtatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc 60
 agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat 120
 ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggaccttg tatctcgggt 180
 tttagcaagt taaaatgaan atgacaggaa aggcttattt atcaacaaag agaagagttg 240
 ggatgcttct aaaaaaaact ttggtagaga aaataggaat gctnaatcct agggaagcct 300
 gtaacaatct acaattggtc ca 322

<210> 133
 <211> 278
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(278)
 <223> n = A,T,C or G

<400> 133
 acaagccttc acaagtttaa ctaaattggg attaatcttt ctgtanttat ctgcataatt 60
 cttgtttttc tttccatctg gtcctgggt tgacaatttg tggaacaac tctattgcta 120
 ctatttataaa aaaatcacaa atctttccct ttaagctatg ttnaattcaa actattcctg 180
 ctattcctgt tttgtcaaag aaattatatt tttcaaaaata tgtntatttg tttgatgggt 240
 cccacgaac actaataaaa accacagaga ccagcctg 278

<210> 134
 <211> 121
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(121)
 <223> n = A,T,C or G

<400> 134
 gtttanaaaa cttgttttagc tccatagagg aaagaatgtt aaactttgta ttttaaaaca 60
 tgattctctg aggttaaact tggttttcaa atgttatatt tacttgatt ttgcttttgg 120
 t 121

<210> 135
 <211> 350
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(350)

<223> n = A,T,C or G

<400> 135

acttanaacc	atgcctagca	catcagaatc	cctcaaagaa	catcagtata	atcctataacc	60
atancaagt	gtgactggtt	aagcgtgcga	caaagggtcag	ctggcacatt	acttgtgtgc	120
aaacttgata	cttttgttct	aagtaggaac	tagtatacag	tncctaggan	tgggtactcca	180
gggtgcccc	caactcctgc	agccgctcct	ctgtgccagn	ccctgnaagg	aactttcgct	240
ccacctcaat	caagccctgg	gccatgctac	ctgcaattgg	ctgaacaaac	gtttgctgag	300
ttcccaagga	tgcaaagcct	ggtgctcaac	tctgtggggcg	tcaactcagt		350

<210> 136

<211> 399

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(399)

<223> n = A,T,C or G

<400> 136

tgtaccgtga	agacgacaga	agttgcatgg	cagggacagg	gcagggccga	ggccagggtt	60
gctgtgattg	tatccgaata	ntcctcgtga	gaaaagataa	tgagatgacg	tgagcagcct	120
gcagacttgt	gtctgccttc	aanaagccag	acaggaaggc	cctgcctgcc	ttggctctga	180
cctggcggcc	agccagccag	ccacagggtg	gcttcttctc	tttgtggtga	caacnccaag	240
aaaactgcag	aggcccagg	tcagggtgtna	gtgggtangt	gaccataaaa	caccagggtgc	300
tcccagggaac	ccgggcaaag	gccatcccca	cctacagcca	gcatgcccac	tggcgtgatg	360
ggtgcagang	gatgaagcag	ccagntgttc	tgctgtggt			399

<210> 137

<211> 165

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(165)

<223> n = A,T,C or G

<400> 137

actggtgtgg	tngggggtga	tgctggtggt	anaagttgan	gtgacttcan	gatggtgtgt	60
ggaggaagt	tgtgaacgta	gggatgtaga	ngttttggcc	gtgctaaatg	agcttcggga	120
ttggctggtc	ccactggtgg	tcactgtcat	tggtgggggt	cctgt		165

<210> 138

<211> 338

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(338)
 <223> n = A,T,C or G

<400> 138
 actcactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc 60
 ttaacttctc cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgcccac 120
 tgctgggcag tctcccatgc cttccacagt gaaagggctt gagaaaaatc acatccaatg 180
 tcatgtgttt ccagccacac caaaaggtgc ttgggggtgga gggctggggg catananggt 240
 cangcctcag gaagcctcaa gttocattca gctttgccac tgtacattcc ccatntttaa 300
 aaaaactgat gccttttttt tttttttttg taaaattc 338

<210> 139
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 139
 gggaatcttg gtttttggca tctggtttgc ctatagccga ggccactttg acagaacaaa 60
 gaaagggact tcgagtaaga aggtgattta cagccagcct agtgcccga gtgaaggaga 120
 attcaaacag acctcgtcac tcttggtgtg agcctggctg gctcaccgcc tatcatctgc 180
 atttgcccta ctcaggtgct accggactct ggccctgat gtctgtagtt tcacaggatg 240
 ccttattttgt cttctacacc ccacagggcc ccctacttct tcggatgtgt ttttaataat 300
 gtcagctatg tgcccacatc tcttcatgc cctccctccc tttcctacca ctgctgagtg 360
 gcctggaact tgttttaaagt gt 382

<210> 140
 <211> 200
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(200)
 <223> n = A,T,C or G

<400> 140
 accaaaanctt ctttctgttg tgttngattt tactataggg gtttngcttn ttctaaanat 60
 acttttcatt taacancttt tgttaagtgt caggctgcac tttgctccat anaattattg 120
 ttttcacatt tcaacttgta tgtgtttgtc tcttanagca ttgggtgaaat cacatatttt 180
 atattcagca taaaggagaa 200

<210> 141
 <211> 335
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(335)
 <223> n = A,T,C or G

<400> 141

actttat	tttt	caaaacactc	atatgttgca	aaaaacacat	agaaaaataa	agtttggtgg	60
gggtgctgac	taaacttcaa	gtcacagact	tttatgtgac	agattggagc	agggtttgtt		120
atgcatgtag	agaacccaaa	ctaatttatt	aaacaggata	gaaacaggct	gtctgggtga		180
aatggttctg	agaaccatcc	aattcacctg	tcagatgctg	atanactagc	tcttcagatg		240
tttttctacc	agttcagaga	tnggttaatg	actanttcca	atggggaaaa	agcaagatgg		300
attcaca	aac	caagtaattt	taaacaaaga	cactt			335

<210> 142
 <211> 459
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(459)
 <223> n = A,T,C or G

<400> 142							
accaggttaa	tattgccaca	tatatccttt	ccaattgcg	gctaaacaga	cgtgtattta		60
gggttggtta	aagacaaccc	agcttaatat	caagagaaat	tgtgacctt	catggagtat		120
ctgatggaga	aaacactgag	ttttgacaaa	tcttatttta	ttcagatagc	agtctgatca		180
cacatgggtcc	aacaacactc	aaataataaa	tcaaataatna	tcagatgtta	aagattggtc		240
ttcaaacatc	atagccaatg	atgccccgct	tgcctataat	ctctccgaca	taaaaccaca		300
tcaacacctc	agtggccacc	aaaccattca	gcacagcttc	cttaactgtg	agctgtttga		360
agctaccagt	ctgagcacta	ttgactatnt	ttttcangct	ctgaatagct	ctagggatct		420
cagcangggg	gggaggaacc	agctcaacct	tggcgtant				459

<210> 143
 <211> 140
 <212> DNA
 <213> Homo sapien

<400> 143							
acatttcctt	ccaccaagtc	aggactcctg	gcttctgtgg	gagttcttat	cacctgaggg		60
aaatccaaac	agtctctcct	agaaaggaat	agtgtcacca	acccaccca	tctccctgag		120
accatccgac	ttccctgtgt						140

<210> 144
 <211> 164
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(164)
 <223> n = A,T,C or G

<400> 144							
acttcagtaa	caacatacaa	taacaacatt	aagtgtatat	tgccatcttt	gtcattttct		60
atctatacca	ctctcccttc	tgaaaacaan	aatcactanc	caatcactta	tacaaatttg		120
aggcaattaa	tccatatttg	ttttcaataa	ggaaaaaaag	atgt			164

<210> 145
 <211> 303

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

<400> 145
 acgtagacca tccaactttg tatttgtaat ggcaaacatc cagnagcaat tcctaaacaa 60
 actggagggt atttataccc aattatccca ttcattaaca tgccctcctc ctcaggctat 120
 gcaggacagc tatcataagt cggcccaggc atccagatac taccatttgt ataaacttca 180
 gtaggggagt ccatccaagt gacaggtcta atcaaaggag gaaatggaac ataagcccag 240
 tagtaaaatn ttgcttagct gaaacagcca caaaagactt accgccgtgg tgattaccat 300
 caa 303

<210> 146
 <211> 327
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(327)
 <223> n = A,T,C or G

<400> 146
 actgcagctc aattagaagt ggtctctgac tttcatcanc ttctccctgg gctccatgac 60
 actggcctgg agtgactcat tgctctgggt gggttgagaga gctcctttgc caacaggcct 120
 ccaagtcagg gctgggattt gtttcctttc cacattctag caacaatatg ctggccactt 180
 cctgaacagg gaggggtgga ggagccagca tggaacaagc tgccactttc taaagtagcc 240
 agacttgccc ctgggcctgt cacacctact gatgaccttc tgtgcctgca ggatggaatg 300
 taggggtgag ctgtgtgact ctatgggt 327

<210> 147
 <211> 173
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(173)
 <223> n = A,T,C or G

<400> 147
 acattgtttt tttgagataa agcattgana gagctctcct taacgtgaca caatggaagg 60
 actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt 120
 atattcaagc acatatgtta tatattatc agttccatgt ttatagccta gtt 173

<210> 148
 <211> 477
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(477)
 <223> n = A,T,C or G

<400> 148
 acaaccactt tatctcatcg aatttttaac ccaaactcac tcaactgtgcc tttctatcct 60
 atgggatata ttatttgatg ctccatttca tcacacatat atgaataata cactcatact 120
 gccctactac ctgctgcaat aatcacattc ccttcctgtc ctgaccctga agccattggg 180
 gtggtcctag tggccatcag tccangcctg caccttgagc ccttgagctc cattgctcac 240
 nccancccac ctcaccgacc ccatectctt acacagctac ctccttgctc tctaacccca 300
 tagattatnt ccaaattcag tcaattaagt tactattaac actctaccgg acatgtccag 360
 caccactggg aagccttctc cagccaacac acacacacac acacncacac acacacatat 420
 ccaggcacag gctacctcat cttcacaatc acccctttaa ttaccatgct atggtgg 477

<210> 149
 <211> 207
 <212> DNA
 <213> Homo sapien

<400> 149
 acagttgtat tataatatca agaaataaac ttgcaatgag agcatttaag agggaagaac 60
 taacgtatatt tagagagcca aggaaggttt ctgtggggag tgggatgtaa ggtggggcct 120
 gatgataaat aagagtcagc caggtaagtg ggtgggtgtg tatgggcaca gtgaagaaca 180
 tttcaggcag agggaacagc agtgaaa 207

<210> 150
 <211> 111
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(111)
 <223> n = A,T,C or G

<400> 150
 accttgattt cattgctgct ctgatggaaa cccaactatc taatttagct aaaacatggg 60
 cacttaaagt tggtcagtgt ttggacttgt taactantgg catctttggg t 111

<210> 151
 <211> 196
 <212> DNA
 <213> Homo sapien

<400> 151
 agcgcggcag gtcattattga acattccaga tacctatcat tactcgatgc tgttgataac 60
 agcaagatgg ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaacat 120
 ggataccaac cggaaaaccc ctatcccga cagcccactg tgggtcccccac tgtctacgag 180
 gtgcatccgg ctcagt 196

<210> 152
 <211> 132
 <212> DNA

<213> Homo sapien

<400> 152

acagcacttt	cacatgtaag	aagggagaaa	ttcctaaatg	taggagaaaag	ataacagAAC	60
cttccccctt	tcatctagt	gtggaaacct	gatgctttat	gttgacagga	atagaaccag	120
gagggagttt	gt					132

<210> 153

<211> 285

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(285)

<223> n = A,T,C or G

<400> 153

acaanaccca	nganaggcca	ctggccgtgg	tgtcatggcc	tcCAAacatg	aaagtgtcag	60
cttctgtctt	tatgtcctca	tctgacaact	ctttaccatt	tttatcctcg	ctcagcagga	120
gcacatcaat	aaagtccaaa	gtcttggact	tggccttggc	ttggaggaag	tcataaacac	180
cctggctagt	gaggggtcgg	cgccgctcct	ggatgacggc	atctgtgaag	tcgtgcacca	240
gtctgcaggc	cctgtggaag	cgccgtccac	acggagtnag	gaatt		285

<210> 154

<211> 333

<212> DNA

<213> Homo sapien

<400> 154

accacagtcc	tggtgggcca	gggcttcatg	accctttctg	tgaaaagcca	tattatcacc	60
accccaaatt	tttctttaa	tatctttaac	tgaaggggtc	agcctcttga	ctgcaaagac	120
cctaagccgg	ttacacagct	aactcccact	ggccctgatt	tgtgaaattg	ctgctgcctg	180
attggcacag	gagtcgaagg	tgttcagctc	ccctcctccg	tggaacgaga	ctctgatttg	240
agtttcacaa	attctcgggc	cacctcgtca	ttgctcctct	gaaataaaat	ccggagaatg	300
gtcaggcctg	tctcatccat	atggatcttc	cgg			333

<210> 155

<211> 308

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(308)

<223> n = A,T,C or G

<400> 155

actggaaata	ataaaaccca	catcacagt	ttgtgtcaaa	gatcatcagg	gcatggatgg	60
gaaagtgtct	tgggaactgt	aaagtgccta	acacatgata	gatgattttt	gttataatat	120
ttgaatcacg	gtgcatacaa	actctcctgc	ctgctcctcc	tgggccccag	ccccagcccc	180
atcacagctc	actgctctgt	tcatccaggc	ccagcatgta	gtggctgatt	cttcttggct	240
gcttttagcc	tccanaagtt	tctctgaagc	caaccaaacc	tctangtgta	aggcatgctg	300
gccctgggt						308

<210> 156
 <211> 295
 <212> DNA
 <213> Homo sapien

<400> 156
 accttgctcg gtgcttgga catattagga actcaaaata tgagatgata acagtgccta 60
 ttattgatta ctgagagaac tgtagacat ttagttgaag attttctaca caggaactga 120
 gaataggaga ttatgtttgg cctcatatt ctctcctatc ctcttgcct cattctatgt 180
 ctaatatatt ctcaatcaaa taaggtttagc ataatcagga aatcgaccaa ataccaatat 240
 aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

<210> 157
 <211> 126
 <212> DNA
 <213> Homo sapien

<400> 157
 acaagtttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60
 gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tatctgtccc 120
 cttagt 126

<210> 158
 <211> 442
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(442)
 <223> n = A,T,C or G

<400> 158
 acccactggt cttggaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60
 aanccagcag gctgcccta gtcagtcctt ccttcagag aaaaagagat ttgagaaagt 120
 gcctgggtaa ttcaccatta atttcctccc ccaaactctc tgagtcttcc cttaatat 180
 ctggtgggtc tgaccaaagc aggtcatggt ttgttgagca tttgggatcc cagtgaagta 240
 natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300
 ccaaccctgt tttcccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga 360
 nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420
 tgttcattct ctgatgtcct gt 442

<210> 159
 <211> 498
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(498)
 <223> n = A,T,C or G

<400> 159

```

acttccaggt aacgttggtg tttccgttga gcctgaactg atgggtgacg ttgtagggtc      60
tccaacaaga actgaggttg cagagcgggt agggaagagt gctgttccag ttgcacctgg      120
gctgctgtgg actgttggtg attcctcact acggcccaag gttgtggaac tggcanaaag      180
gtgtgttggt gganttgagc tcgggcggct gtggtaggtt gtgggctctt caacaggggc      240
tgctgtggtg cggggangtg aangtggttg gtcacttgag cttggccagc tctggaaagt      300
antanattct tcctgaaggc cagcgcttgt ggagctggca ngggtcantg ttgtgtgtaa      360
cgaaccagtg ctgctgtggg tgggtgtana tcctccacaa agcctgaagt tatgggtgcn      420
tcaggtaana atgtggtttc agtgtccctg ggcngctgtg gaaggttgta nattgtcacc      480
aaggaataa  gctgtggt                                498

```

```

<210> 160
<211> 380
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G

```

```

<400> 160
acctgcattc agcttccctg ccaaactcac aaggagacat caacctctag acagggaaac      60
agcttcagga tacttccagg agacagagcc accagcagca aaacaaatat tcccatgcct      120
ggagcatggc atagaggaag ctganaaatg tggggctctga ggaagccatt tgagtctggc      180
cactagacat ctcatcagcc acttgtgtga agagatgcc catgacccca gatgcctctc      240
ccacccttac ctccatctca cacacttgag ctttccactc tgtataattc taacatcctg      300
gagaaaaatg gcagtttgac cgaacctgtt cacaacggta gaggctgatt tctaacgaaa      360
cttgtagaat gaagcctgga                                380

```

```

<210> 161
<211> 114
<212> DNA
<213> Homo sapien

```

```

<400> 161
actccacatc cctctgagc aggcgggttg cgttcaaggt gtatttggcc ttgcctgtca      60
cactgtccac tggcccccta tccacttggt gcttaatccc tcgaaagagc atgt          114

```

```

<210> 162
<211> 177
<212> DNA
<213> Homo sapien

```

```

<400> 162
actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa      60
gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt      120
tggtgatata taacttggca ataaccagct ctggtgatac ataaaactac tcactgt       177

```

```

<210> 163
<211> 137
<212> DNA
<213> Homo sapien

```

```

<220>

```


<221> misc_feature
 <222> (1)...(137)
 <223> n = A,T,C or G

<400> 163
 catttatata gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtgac 60
 canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt 120
 catcagcggc atgatgt 137

<210> 164
 <211> 469
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(469)
 <223> n = A,T,C or G

<400> 164
 cttatcacaa tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60
 tgcaatgcat catgctatct catacctaag gagggagttc caggagattc aaccaggaaa 120
 tgcattggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180
 gagacatgca cttgctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg 240
 ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300
 gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct 360
 tctagtaggc acagggtccc caggccaggc ctcattctcc tctggcctct aatagtcaat 420
 gattgtgtag ccatgcctat cagtaaaaag atntttgagc aaacacttt 469

<210> 165
 <211> 195
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(195)
 <223> n = A,T,C or G

<400> 165
 acagtttttt atanatatcg acattgccgg cacttggtgtt cagtttcata aagctgggtgg 60
 atccgctgtc atccactatt ccttggttag agtaaaaatt attcttatag cccatgtccc 120
 tgcaggccgc ccgcccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact 180
 tcctctgaga tgagt 195

<210> 166
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 166
 acatcttagt agtgtggcac atcagggggc catcaggggc acagtcactc atagcctcgc 60
 cgaggtcgga gtccacacca ccggtgtagg tgtgtcfaat cttgggcttg gcgcccacct 120
 ttggagaagg gatatgctgc acacacatgt ccacaaagcc tgtgaactcg ccaaagaatt 180
 tttgcagacc agcctgagca aggggcggat gttcagcttc agctcctcct tcgtcagggtg 240
 gatgccaacc tcgtctangg tccgtgggaa gctgggtgtcc acntcaccta caacctgggc 300
 gangatctta taaagaggct ccnagataaa ctccacgaaa cttctctggg agctgctagt 360
 nggggccttt ttggtgaact ttc 383

<210> 167
 <211> 247
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(247)
 <223> n = A,T,C or G

<400> 167
 acagagccag accttgGCCA taaatgaanc agagattaag actaaacccc aagtcganat 60
 tggagcagaa actggagcaa gaagtgggcc tggggctgaa gtagagacca aggccactgc 120
 tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac 180
 tcaatctgan tccaaagtgg tggctggaac actgggtcatg acanaggcag tgactctgac 240
 tgangtc 247

<210> 168
 <211> 273
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(273)
 <223> n = A,T,C or G

<400> 168
 acttctaagt tttctagaag tggaaggatt gtantcatcc tgaaaatggg tttacttcaa 60
 aatccctcan ccttgttctt cacnactgtc tatactgana gtgtcatgtt tccacaaagg 120
 gctgacacct gagcctgnat tttcactcat ccctgagaag ccctttccag taggggtggc 180
 aattcccaac ttcttgcca caagcttccc aggtttctc ccctggaaaa ctccagcttg 240
 agtcccatgat acactcatgg gctgccttg gca 273

<210> 169
 <211> 431
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

```

<400> 169
acagccttgg cttccccaaa ctccacagtc tcagtgcaga aagatcatct tccagcagtc      60
agctcagacc aggggtcaaag gatgtgacat caacagtttc tggtttcaga acaggttcta      120
ctactgtcaa atgaccccccc atacttcctc aaaggctgtg gtaagttttg cacaggtgag      180
ggcagcagaa aggggggtant tactgatgga caccatcttc tctgtatact ccacactgac      240
cttgccatgg gcaaaggccc ctaccacaaa aacaatagga tcaactgctg gcaccagctc      300
acgcacatca ctgacaaccg ggatggaaaa agaantgcc aacttcatac atccaactgg      360
aaagtgatct gatactggat tcttaattac cttcaaaagc ttctgggggc catcagctgc      420
tcgaacactg a                                     431

```

```

<210> 170
<211> 266
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

```

```

<400> 170
acctgtgggc tgggctgtta tgccctgtgc ggctgctgaa agggagttca gaggtggagc      60
tcaaggagct ctgcaggcat ttgccaanc ctctccanag canagggagc aacctacact      120
ccccgctaga aagacaccag attggagtcc tgggaggggg agttgggggtg ggcatttgat      180
gtatacttgt cacctgaatg aangagccag agaggaanga gacgaanatg anattggcct      240
tcaaagctag gggctctggca ggtgga                                     266

```

```

<210> 171
<211> 1248
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1248)
<223> n = A,T,C or G

```

```

<400> 171
ggcagccaaa tcataaacgg cgaggactgc agcccgact cgcagccctg gcaggcggca      60
ctggctcatgg aaaacgaatt gttctgctcg ggcgctctgg tgcacccgca gtgggtgctg      120
tcagccgcac actgtttcca gaagtgaagt cagagctcct acaccatcgg gctgggcctg      180
cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta      240
cggcacccag agtacaacag acccttgctc gctaaccgacc tcatgctcat caagttggac      300
gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc      360
gcgggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc      420
gtgctgcagt gcgtgaacgt gtcggtgggt tctgaggagg tctgcagtaa gctctatgac      480
ccgctgtacc accccagcat gttctgcgcc ggcgaggggc aagaccagaa ggactcctgc      540
aacggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc      600
ggaaaagccc cgtgtggcca agttggcgtg ccaggtgtct acaccaacct ctgcaaattc      660
actgagtgga tagagaaaac cgtccaggcc agttaactct ggggactggg aacccatgaa      720
attgaccccc aaatacatcc tgcggaagga attcaggaat atctgttccc agcccctcct      780
ccctcaggcc caggagtcca ggccccagc cctcctctcc tcaaaccaag ggtacagatc      840
cccagccctt cctccctcag acccaggagt ccagaccccc cagcccctcc tccctcagac      900
ccaggagtcc agcccctcct ccctcagacc caggagtcca gacccccag cccctcctcc      960

```

```

ctcagaccca ggggtccagg cccccaaccc ctctccctc agactcagag gtccaagccc 1020
ccaaccntc attcccaga cccagaggtc caggccccag cccctcntcc ctcagaccca 1080
gcgggtccaat gccacctaga ctntccctgt acacagtgcc cccttggtggc acgttgaccc 1140
aaccttacca gttggttttt catttttngt ccctttcccc tagatccaga aataaagttt 1200
aagagaagng caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1248

```

```

<210> 172
<211> 159
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(159)
<223> Xaa = Any Amino Acid

```

```

<400> 172
Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
1          5          10          15
Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
20          25          30
Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
35          40          45
Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
50          55          60
Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
65          70          75          80
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
85          90          95
Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
100          105          110
Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
115          120          125
Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
130          135          140
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
145          150          155

```

```

<210> 173
<211> 1265
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1265)
<223> n = A,T,C or G

```

```

<400> 173
ggcagcccgc actcgcagcc ctggcaggcg gcactggtca tggaaaacga attgttctgc 60
tcggggcgctc tgggtgcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc 120
tacaccatcg ggctgggcct gcacagtctt gagggccgacc aagagccagg gagccagatg 180
gtggaggcca gcctctccgt acggcaccga gactacaaca gacccttgct cgctaacgac 240
ctcatgctca tcaagttgga cgaatccgtg tccgagtctg acaccatccg gagcatcagc 300

```

```

attgcttcgc agtgcacctac cgcggggaac tcttgccctcg tttctggctg gggctctgctg 360
gcgaacgggtg agctcacggg tgtgtgtctg ccctcttcaa ggaggtcctc tgcccagtcg 420
cgggggctga cccagagctc tgcgtccag gcagaatgcc taccgtgctg cagtgcgtga 480
acgtgtcggg ggtgtctgag gaggtctgca gtaagctcta tgaccgctg taccaccca 540
gcatgttctg cgccggcgga gggcaagacc agaaggactc ctgcaacggg gactctgggg 600
ggccccctgat ctgcaacggg tacttgacagg gccttggtgc tttcggaaaa gccccgtgtg 660
gccaaagtgg cgtgccagggt gtctacacca acctctgcaa attcactgag tggatagaga 720
aaaccgtcca ggccagttaa ctctggggac tgggaacca tgaaattgac ccccaaatac 780
atcctgcgga aggaattcag gaatatctgt tcccagcccc tcctccctca ggcccaggag 840
tccaggcccc cagccccctc tccctcaaac caagggtaca gatccccagc ccctcctccc 900
tcagaccagc gagtccagac cccccagccc ctctccctc agaccagga gtccagcccc 960
tcctccntca gaccaggag tccagacccc ccagccctc ctccctcaga cccaggggtt 1020
gaggccccca acccctcctc ctccagagtc agaggtccaa gcccccaacc cctcgttccc 1080
cagaccagga ggttnnaggtc ccagccctc ttcctcaga cccagnngtc caatgccacc 1140
tagattttcc ctgnacacag tgcccccttg tggngangttg acccaacctt accagttggg 1200
ttttcatttt tngtcccttt cccctagatc cagaaataaa gtttaagaga ngngcaaaaa 1260
aaaaa 1265

```

```

<210> 174
<211> 1459
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1459)
<223> n = A,T,C or G

```

```

<400> 174
ggtcagccgc acactgtttc cagaagttag tgcagagctc ctacaccatc gggctggggc 60
tgcacagtct tgaggccgac caagagccag ggagccagat ggtggaggcc agcctctccg 120
tacggcaccc agagtacaac agacccttgc tcgctaacga cctcatgctc atcaagttag 180
acgaatccgt gtccgagtct gacaccatcc ggagcatcag cattgcttcg cagtgccta 240
ccgcggggaa ctcttgccctc gtttctggct ggggtctgct ggcgaacggg gagctcacgg 300
gtgtgtgtct gccctcttca aggaggtcct ctgcccagtc gcgggggctg acccagagct 360
ctgcgtccca ggcagaatgc ctaccgtgct gcagtgcgtg aacgtgtcgg tgggtgtctga 420
ngaggtctgc antaagctct atgaccgct gtaccacccc ancatgttct gcgcggcgcg 480
agggcaagac cagaaggact cctgcaacgt gagagagggg aaaggggagg gcaggcgact 540
caggaaggg tgagaaggg ggagacagag acacacaggg ccgcatggcg agatgcagag 600
atggagagac acacagggag acagtgacaa ctagagagag aaactgagag aaacagagaa 660
ataaacacag gaataaagag aagcaaagga agagagaaac agaaacagac atggggaggc 720
agaaacacac acacatagaa atgcagttga ccttccaaca gcatggggcc tgagggcggt 780
gacctccacc caatagaaaa tcctcttata acttttgact ccccaaaaac ctgactagaa 840
atagcctact gttgacgggg agccttacca ataacataaa tagtcgattt atgcatacgt 900
tttatgcatt catgatatac ctttggttga attttttgat atttctaagc tacacagttc 960
gtctgtgaat ttttttaaatt tggtgcaact ctccataaaat ttttctgatg tgtttattga 1020
aaaaatccaa gtataagtgg acttggtgcat tcaaaccagg gttgttcaag ggtcaactgt 1080
gtaccagag ggaaacagtg acacagattc atagagggtg aacacgaaga gaaacaggaa 1140
aatcaagac tctacaaaga ggctgggcag ggtggctcat gcctgtaatc ccagcacttt 1200
gggaggcgag gcaggcagat cacttgagggt aaggagttca agaccagcct ggccaaaatg 1260
gtgaaatcct gtctgtacta aaaatacaaa agttagctgg atatggtggc aggcgcctgt 1320
aatcccagct acttgggagg ctgaggcagg agaattgctt gaatatggga ggcagaggtt 1380
gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

<210> 175
 <211> 1167
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1167)
 <223> n = A,T,C or G

<400> 175
 ggcagagccct ggcagggcggc actggtcatg gaaaacgaat tggttctgctc gggcgctcctg 60
 gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 120
 ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 180
 ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc 240
 aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 300
 tgccctaccg cggggaactc ttgcctcgtn tctggctggg gtctgctggc gaacggcaga 360
 atgcctaccg tctgcactg cgtgaacgtg tcggtggtgt ctgaggangt ctgcagtaag 420
 ctctatgacc cgctgtacca ccccagcatg ttctgcgccg gcggagggca agaccagaag 480
 gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540
 gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc cagggtgtcta caccaacctc 600
 tgcaaattca ctgagtggat agagaaaacc gtccagncca gttaactctg gggactggga 660
 acccatgaaa ttgacccccca aatacatcct gcggaangaa ttcaggaata tctgttccca 720
 gccctcctc cctcaggccc aggagtccag gccccagcc cctcctccct caaaccaagg 780
 gtacagatcc ccagcccctc ctccctcaga cccaggagtc cagaccccc agccccctnt 840
 cntcagacc caggagtcca gccctcctc cntcagacgc aggagtccag accccccagc 900
 cntcntccg tcagaccagc ggggtgcaggc ccccaacccc tcntcntca gagtcagagg 960
 tccaagcccc caacccctcg ttccccagac ccagaggtnc aggtcccagc ccctcctccc 1020
 tcagaccagc cggtccaatg ccacctagan tntccctgta cacagtgcc ccttggtggca 1080
 ngttgaccca accttaccag ttggtttttc attttttgtc ctttcccct agatccagaa 1140
 ataaagtnta agagaagcgc aaaaaaa 1167

<210> 176
 <211> 205
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)...(205)
 <223> Xaa = Any Amino Acid

<400> 176
 Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1 5 10 15
 Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
 20 25 30
 Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
 35 40 45
 Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
 50 55 60
 Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 65 70 75 80

Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala	Gly
				85					90					95	
Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg	Met
			100					105					110		
Pro	Thr	Val	Leu	His	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Xaa	Val
		115					120					125			
Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys	Ala
		130				135					140				
Gly	Gly	Gly	Gln	Asp	Gln	Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly	Gly
145					150					155					160
Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly	Lys
			165					170						175	
Ala	Pro	Cys	Gly	Gln	Leu	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu	Cys
			180					185					190		
Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Xaa	Ser			
		195					200					205			

<210> 177
 <211> 1119
 <212> DNA
 <213> Homo sapien

<400> 177	
gcgcactcgc agccctggca ggcggcactg gtcattggaaa acgaattggt ctgctcgggc	60
gtcctggtgc atccgcagtg ggtgctgtca gccgcacact gtttccagaa ctctacacc	120
atcgggctgg gcctgcacag tcttgaggcc gaccaagagc cagggagcca gatggtggag	180
gccagcctct ccgtacggca cccagagtac aacagaccct tgctcgctaa cgacctcatg	240
ctcatcaagt tggacgaatc cgtgtccgag tctgacacca tccggagcat cagcattgct	300
tcgcagtgcc ctaccgcggg gaactcttgc ctctgttctg gctggggtct gctggcgaac	360
gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgtga gaagctttcc	420
caaccctggc agggttgtac catttcggca acttccagtg caaggacgtc ctgctgcac	480
ctcactgggt gctcactact gctcactgca tcaccggaa cactgtgatc aactagccag	540
caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt	600
actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gcctcaacca tcttggtatc	660
cagttatcct cactgaattg agatttcctg cttcagtgtc agccattccc acataatttc	720
tgacctacag aggtgaggga tcatatagct cttcaaggat gctgggtactc ccctcacaaa	780
ttcattttctc ctgttgtagt gaaagggtgc ccctctggag cctcccaggg tgggtgtgca	840
ggtcacaatg atgaatgtat gatcgtgttc ccattaccca aagcctttaa atccctcatg	900
ctcagtacac cagggcaggt ctagcatttc ttcatttagt gtatgctgtc cattcatgca	960
accacctcag gactcctgga ttctctgect agttgagctc ctgcatgctg cctccttggg	1020
gaggtgaggg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc	1080
ttaataaaca gaagctgtga tgtaaaaaa aaaaaaaaaa	1119

<210> 178
 <211> 164
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)...(164)
 <223> Xaa = Any Amino Acid

<400> 178

Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1 5 10 15
 Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
 20 25 30
 Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
 35 40 45
 Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu
 50 55 60
 Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 65 70 75 80
 Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
 85 90 95
 Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Asp Ala Val
 100 105 110
 Ile Ala Ile Gln Ser Xaa Thr Val Gly Gly Trp Glu Cys Glu Lys Leu
 115 120 125
 Ser Gln Pro Trp Gln Gly Cys Thr Ile Ser Ala Thr Ser Ser Ala Arg
 130 135 140
 Thr Ser Cys Cys Ile Leu Thr Gly Cys Ser Leu Leu Leu Thr Ala Ser
 145 150 155 160
 Pro Gly Thr Leu

<210> 179
 <211> 250
 <212> DNA
 <213> Homo sapien

<400> 179
 ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct 60
 ccagctgccc ccggccgggg gatgcgaggc tcggagcacc cttgcccggc tgtgattgct 120
 gccaggcact gttcatctca gcttttctgt ccctttgctc ccggcaagcg cttctgctga 180
 aagttcatat ctggagcctg atgtcttaac gaataaaggt cccatgctcc acccgaaaaa 240
 aaaaaaaaaa 250

<210> 180
 <211> 202
 <212> DNA
 <213> Homo sapien

<400> 180
 actagtccag tgtggtggaa ttccattgtg ttgggcccaa cacaatggct acctttaaca 60
 tcaccagac ccgcccctg cccgtgcccc acgtgctgc taacgacagt atgatgctta 120
 ctctgtact cggaactat ttttatgtaa ttaatgtatg ctttcttggt tataaatgcc 180
 tgatttaaaa aaaaaaaaaa aa 202

<210> 181
 <211> 558
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(558)

<223> n = A,T,C or G

<400> 181

tccyttt	gkt	naggttt	kk	g	agac	mccck	agac	ctwaan	ctgt	gtcaca	gact	tcyngg	60
a	atgttt	tagg	cagt	gctagt	a	atttcy	tcg	ta	atgatt	ct	gttatt	actt	120
ttatt	ctct	ttctt	ctgaa	gatta	aatgaa	gttg	aaaatt	gagg	tgata	aata	caaaaa	180	
ggtag	gtga	tagt	ataagt	gc	agat	gaaagt	gtgt	tata	tatt	ccatt	ca	240	
aaatt	atgca	agtt	tagta	tact	caggg	t	aact	aaatt	actt	taata	t	300	
ctact	ctgtt	cctt	ggctag	aaaa	aattat	aaac	caggact	ttgt	tagttt	ggga	agccaa	360	
attg	ataata	ttct	atgttc	taaa	agttgg	gct	tatacata	aatt	attaag	aaat	atggaw	420	
tttt	attccc	agga	aatatgg	kgtt	catttt	atga	aatatta	cscrg	gatag	awgt	wtgagt	480	
aaaay	cagtt	ttgg	twaata	ygt	waatatg	tcmt	aaataa	aca	akgctt	gact	tatttc	540	
caaaaa	aaaa	aaaa	aaaa									558	

<210> 182

<211> 479

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(479)

<223> n = A,T,C or G

<400> 182

acaggg	wttk	grgg	atgcta	ag	ccccrga	rwty	gtttga	tcca	accctg	gctt	wttttc	60
agaggg	gaaa	atgg	ggccta	ga	agttacag	m	scatytagy	tggt	gcgmtg	gc	ccccctgg	120
cstca	cacag	astc	ccgagt	ag	ctgggact	ac	aggcacac	ag	tactgaa	gc	aggccctg	180
ttwgc	aattc	acgt	tggcac	ct	ccaactta	a	cattcttc	at	atgtgatg	tc	cttagtca	240
ctaag	gttaa	actt	tcccac	cc	agaaaagg	ca	acttagat	aaa	atcttag	ag	tactttca	300
tactm	ttcta	agtc	ctcttc	cag	cctcact	kk	gagtcctm	cyt	gggggtt	gat	aggaant	360
ntctc	ttggc	tttct	caata	a	artctctat	y	catctcatg	ttt	aatttgg	tac	gcataara	420
awtgs	tgara	aaatt	aaaaat	gtt	ctggtty	m	actttaaaa	a	aaaaaaaa	a	aaaaaaaa	479

<210> 183

<211> 384

<212> DNA

<213> Homo sapien

<400> 183

aggc	gggagc	aga	agctaaa	g	ccaaagccc	a	agaagagtg	gc	agtgccag	c	actgggtgcc	60
agt	accagta	cca	ataacag	t	gccagtgcc	ag	tgccagca	cc	agtgggtgg	ct	t	120
ggt	gccagcc	tg	accgccac	t	ctcacattt	gg	gtctcttcg	ct	ggccttgg	t	ggagctgggt	180
gcc	agcacca	gt	ggcagctc	t	gggtgcctgt	gg	tttctcct	aca	agtgaga	t	tttagatat	240
tg	taatcct	gcc	agtcttt	ct	cttcaagc	c	aggggtgcat	c	ctcagaaac	ct	actcaaca	300
cag	cactcta	gg	cagccact	at	caatcaat	t	gaagttgac	act	ctgcatt	a	ratctattt	360
gcc	atttcaa	aaaa	aaaaaaa	aaaa								384

<210> 184

<211> 496

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(496)
 <223> n = A,T,C or G

<400> 184
 accgaattgg gaccgctggc ttataagcga tcatgtyynt ccrgtatcac ctcaacgagc 60
 aggagatcg agtctatacg ctgaagaaat ttgacccgat gggacaacag acctgctcag 120
 cccatcctgc tcggttctcc ccagatgaca aatactctsg acaccgaatc accatcaaga 180
 aacgcttcaa ggtgctcatg acccagcaac cgcgccctgt cctctgaggg tcccttaaac 240
 tgatgtcttt tctgccacct gttacccctc ggagactccg taaccaaaact cttcggactg 300
 tgagccctga tgcctttttg ccagccatac tctttggcat ccagtctctc gtggcgattg 360
 attatgcttg tgtgaggcaa tcatggtggc atcacccata aagggaacac atttgacttt 420
 tttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst 480
 taaaaaaaaa aaaaaa 496

<210> 185
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 185
 gctggtagcc tatggcgkgg ccacgagg ggctcctgag gccacggrac agtgacttcc 60
 caagtatcyt gcgcsgegtc ttctaccgtc cctacctgca gatcttcggg cagattcccc 120
 aggaggacat ggacgtggcc ctcatggagc acagcaactg ytcgtcggag cccggcttct 180
 gggcacaccc tcttggggcc caggcgggca cctgcgtctc ccagtatgcc aactggctgg 240
 tgggtgctgt cctcgtcatc ttctgctcg tggccaaacat cctgctggtc aacttgctca 300
 ttgccatgtt cagttacaca ttccggaaag tacagggcaa cagcgatctc tactgggaag 360
 gcgcagcgtt accgcctcat ccgg 384

<210> 186
 <211> 577
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(577)
 <223> n = A,T,C or G

<400> 186
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggccctctcg ttcataaccgc 60
 tnccatcgtc atactgtagg ttgcccacca cytcctggca tcttggggcg gcntaatatt 120
 ccaggaaact ctcaatcaag tcaccgtcga tgaaacctgt gggctgggtc tgtcttcgc 180
 tcggtgtgaa aggatctccc agaaggagt ctcgatcttc ccacacttt tgatgacttt 240
 attgagtcga ttctgcatgt ccagcaggag gttgtaccag ctctctgaca gtgaggtcac 300
 cagccctatc atgccgttga mcgtgccgaa garcaccgag ccttgtgtgg gggkkgaagt 360
 ctacccaga ttctgcatta ccagagagcc gtggcaaaaag acattgacaa actcgccag 420
 gtggaaaaag amcamctcct ggargtgctn gccgctcctc gtcmgttggg ggcagcgctw 480
 tccttttgac acacaaacaa gttaaaggca ttttcagccc ccagaaaant gtcacatcc 540
 aagatntcgc acagcactna tccagttggg attaaat 577

<210> 187
 <211> 534
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(534)

<223> n = A,T,C or G

<400> 187

aacatcttcc	tgtataatgc	tgtgtaatat	cgatccgatn	ttgtctgstg	agaatycatw	60
actkggaaaa	gmaacattaa	agcctggaca	ctggtattaa	aattcacaat	atgcaacact	120
ttaaacagtg	tgtcaatctg	ctcccyynac	tttgtcatca	ccagtctggg	aakaagggta	180
tgccctattc	acacctgtta	aaagggcgct	aagcattttt	gattcaacat	cttttttttt	240
gacacaagtc	cgaaaaaagc	aaaagtaaac	agttatyaat	ttgttagcca	attcactttc	300
ttcatgggac	agagccatyt	gatttaaaaa	gcaaattgca	taatattgag	cttygggagc	360
tgatatttga	gcggaagagt	agcctttcta	cttcaccaga	cacaactccc	tttcatattg	420
ggatgttnac	naaagtwatg	tctctwacag	atgggatgct	tttgtggcaa	ttctgttctg	480
aggatctccc	agttttattta	ccacttgcac	aagaaggcgt	tttcttcctc	aggc	534

<210> 188

<211> 761

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(761)

<223> n = A,T,C or G

<400> 188

agaaaccagt	atctctnaaa	acaacctctc	ataccttgtg	gacctaatth	tgtgtgcgtg	60
tgtgtgtgcg	cgcataattat	atagacaggc	acatcttttt	tacttttgta	aaagcttatg	120
cctcttttgg	atctatatct	gtgaaagttt	taatgatctg	ccataatgtc	ttggggacct	180
ttgtcttctg	tgtaaatggg	actagagaaa	acacctatnt	tatgagtcaa	tctagttngt	240
tttattcgac	atgaaggaaa	tttccagatn	acaacactna	caaactctcc	ctkgackarg	300
ggggacaaag	aaaagcaaaa	ctgamcataa	raaacaatwa	cctggtgaga	arttgcataa	360
acagaaatwr	ggtagtatat	tgaarnacag	catcattaaa	rmgttwtktt	wttctccctt	420
gcaaaaaaca	tgtacngact	tcccgttgag	taatgccaag	ttgttttttt	tatnataaaa	480
cttgcccttc	attacatggt	tnaaagtggg	gtgggtgggc	aaaatattga	aatgatggaa	540
ctgactgata	aagctgtaca	aataagcagt	gtgcctaaca	agcaacacag	taatgttgac	600
atgcttaatt	cacaaatgct	aatttcatta	taaatgtttg	ctaaaataca	ctttgaacta	660
tttttctgtn	ttcccgagag	tgagatntta	gattttatgt	agtatnaagt	gaaaaantac	720
gaaaataata	acattgaaga	aaaananaaa	aaanaaaaaa	a		761

<210> 189

<211> 482

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(482)

<223> n = A,T,C or G

<400> 189

```

tttttttttt tttgccgatn ctactatattt attgcaggan gtgggggtgt atgcaccgca      60
caccggggct atnagaagca agaaggaagg agggagggca cagccccttg ctgagcaaca      120
aagccgcctg ctgccttctc tgtctgtctc ctggtgcagg cacatgggga gaccttcccc      180
aaggcagggg ccaccagtcc aggggtggga atacaggggg tgggangtgt gcataagaag      240
tgataggcac aggccacccg gtacagaccc ctcggtcctt gacaggtnga ttctgaccag      300
gtcattgtgc cctgcccagg cacagcgtaa atctggaaaa gacagaatgc ttctcttttc      360
aaatttggct ngtcatngaa ngggcanttt tccaanttng gctnngtctt ggtacncttg      420
gttcggccca gctcncgctc caaaaantat tcacccnctt ccnaattgct tgcnggnccc      480
cc

```

```

<210> 190
<211> 471
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

```

```

<400> 190
tttttttttt ttttaaaaca gtttttcaca acaaaattta ttagaagaat agtgggttttg      60
aaaactctcg catccagtga gaactaccat acaccacatt acagctngga atgtntctca      120
aatgtctggt caaatgatac aatggaacca ttcaatctta cacatgcacg aaagaacaag      180
cgcttttgac atacaatgca caaaaaaaaa aggggggggg gaccacatgg attaaaattt      240
taagtaactca tcacatacat taagacacag ttctagtcca gtcnaaaatc agaactgcnt      300
tgaaaaattt catgtatgca atccaaccaa agaacttnat tggatgatcat gantnctcta      360
ctacatcnac cttgatcatt gccaggaacn aaaagttnaa ancacncngt acaaaaaanaa      420
tctgtaattn anttcaacct ccgtacngaa aaatnttntt tatacactcc c              480

```

```

<210> 191
<211> 402
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(402)
<223> n = A,T,C or G

```

```

<400> 191
gagggattga aggtctgttc tastgtcggm ctgttcagcc accaactcta acaagttgct      60
gtcttccact cactgtctgt aagcttttta acccagacwg tatcttcata aatagaacaa      120
attcttcacc agtcacatct tctaggacct ttttgattc agttagtata agctcttcca      180
cttcctttgt taagacttca tctggtaaag tcttaagttt tgtagaaagg aattyaattg      240
ctcgttctct aacaatgtcc tctccttgaa gtatttggct gaacaaccca cctaaagtcc      300
ctttgtgcat ccattttaaa tatacttaat agggcattgk tncactaggt taaattctgc      360
aagagtcatc tgtctgcaaa agttgcgtta gtatatctgc ca              480

```

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<210> 192
<211> 601
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(601)
 <223> n = A,T,C or G

<400> 192

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
ggctctacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcytyttt	gaytaccgtg	tgccaagtgc	tggtgattct	yaacacacyt	ccatcccgyt	180
cttttgtgga	aaaactggca	cttktctgga	actagcarga	catcacttac	aaattcaccc	240
acgagacact	tgaaagggtg	aacaaagcga	ytcttgcat	gctttttgtc	cctccggcac	300
cagttgtcaa	tactaaccgg	ctggtttgcc	tccatcacat	ttgtgatctg	tagctctgga	360
tacatctcct	gacagtactg	aagaacttct	tcttttggtt	caaaagcarc	tcttggtgcc	420
tggttgatca	ggttcccat	tcccagtcyg	aatgttcaca	tggcatattt	wacttcccac	480
aaaacattgc	gatttgaggc	tcagcaacag	caaatcctgt	tccggcattg	gctgcaagag	540
cctcgatgta	gccggccagc	gccaaaggcag	gcgccgtgag	cccaccagc	agcagaagca	600
g						601

<210> 193
 <211> 608
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(608)
 <223> n = A,T,C or G

<400> 193

atacagccca	natcccacca	cgaagatgcg	cttgttgact	gagaacctga	tgcggtcaact	60
ggctcccgtg	tagccccagc	gactctccac	ctgctggaag	cggttgatgc	tgcaactcytt	120
cccaacgcag	gcagmagcgg	gscgggtcaa	tgaactccay	tcgtggcttg	gggtkgacgg	180
tkaagtgcag	gaagaggctg	accacctcgc	ggtccaccag	gatgcccagc	tgtgcgggac	240
ctgcagcgaa	actcctcgat	ggtcatgagc	gggaagcgaa	tgaggcccag	ggccttgccc	300
agaaccttcc	gctgtttctc	tggcgtcacc	tgcaagtctg	gccgctgaca	ctcggcctcg	360
gaccagcgga	caaacggcrt	tgaacagccg	cacctcacgg	atgcccagtg	tgtcgcgctc	420
caggammgsc	accagcgtgt	ccagggtcaat	gtcgggtgaag	ccctccgcgg	gtrattggcgt	480
ctgcagtgtt	tttgtcgatg	ttctccaggc	acaggctggc	cagctgcggt	tcategaaga	540
gtcgcgcctg	cgtgagcagc	atgaaggcgt	tgtcggctcg	cagttcttct	tcaggaaactc	600
cacgcaat						608

<210> 194
 <211> 392
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = A,T,C or G

<400> 194

gaacggctgg	accttgccctc	gcattgtgct	tgctggcagg	gaataccttg	gcaagcagyt	60
ccagtcagag	cagccccaga	ccgctgccgc	ccgaagctaa	gcctgcctct	ggccttcccc	120

tccgcctcaa	tgcagaacca	gtagtgggag	caactgtgttt	agagttaaga	gtgaacactg	180
tttgatttta	cttgggaatt	tcctctgtta	tatagctttt	cccaatgcta	atttccaaac	240
aacaacaaca	aaataacatg	tttgccgtgt	aagttgtata	aaagtaggtg	attctgtatt	300
taaagaaaat	attactgtta	catatactgc	ttgcaatttc	tgtattttatt	gktnctstgg	360
aaataaatat	agttattaaa	ggttgtcant	cc			392

<210> 195
 <211> 502
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(502)
 <223> n = A,T,C or G

ccsttkgagg	ggtkaggkyc	cagttyccga	gtggaagaaa	caggccagga	gaagtgcgtg	60
ccgagctgag	gcagatgttc	ccacagtgc	ccccagagcc	stgggstata	gtytctgacc	120
cctcncaagg	aaagaccacs	ttctggggac	atgggctgga	gggcaggacc	tagaggcacc	180
aagggaaagg	cccattccgg	ggstgttccc	cgaggaggaa	gggaaggggc	tctgtgtgcc	240
ccccasgagg	aagaggccct	gagtcctggg	atcagacacc	ccttcacgtg	tatccccaca	300
caaatgcaag	ctcaccaagg	tccccctctc	gtcccccttc	stacaccctg	amcggccact	360
gscscacacc	caccagagc	acgccacccc	ccatggggar	tgtgctcaag	gartcgcnng	420
gcarcgtgga	catctngtcc	cagaaggggg	cagaatctcc	aatagangga	ctgarcmstt	480
gctnanaaaa	aaaaanaaaa	aa				502

<210> 196
 <211> 665
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(665)
 <223> n = A,T,C or G

ggttacttgg	tttcattgcc	accacttagt	ggatgtcatt	tagaaccatt	ttgtctgctc	60
cctctggaag	ccttgccgag	agcggacttt	gtaattgttg	gagaataact	gctgaatttt	120
wagctgtttk	gagttgatts	gcaccactgc	accacaaact	tcaatatgaa	aacyawttga	180
actwatthtat	tatcttgtga	aaagtataac	aatgaaaatt	ttgttcatac	tgtattkatc	240
aagtatgatg	aaaagcaawa	gatatatatt	cttttattat	gttaaattat	gattgccatt	300
attaatcggc	aaaatgtgga	gtgtatgttc	ttttcacagt	aatatatgcc	ttttgtaact	360
tcacttggtt	attttattgt	aaatgartta	caaaattctt	aatttaagar	aatggtagt	420
watattttatt	tcattaattt	ctttcctkgt	ttacgtwaat	tttgaaaaga	wtgcatgatt	480
tcttgacaga	aatcgatctt	gatgctgtgg	aagtagtttg	accacatcc	ctatgagttt	540
ttcttagaat	gtataaagg	tgtagcccat	cnaacttcaa	agaaaaaaat	gaccacatac	600
tttgcaatca	ggctgaaatg	tggcatgctn	ttctaattcc	aactttataa	actagcaaan	660
aagtg						665

<210> 197
 <211> 492
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(492)

<223> n = A,T,C or G

<400> 197

tttntttttt	ttttttttgc	aggaaggatt	ccattttattg	tggatgcatt	ttcacaatat	60
atgtttattg	gagcgatcca	ttatcagtga	aaagtatcaa	gtgtttataa	natttttagg	120
aaggcagatt	cacagaacat	gctngtcngc	ttgcagtttt	acctcgtana	gatnacagag	180
aattatagtc	naaccagtaa	acnaggaatt	tactttttcaa	aagattaaat	ccaaactgaa	240
caaaattcta	ccctgaaact	tactccatcc	aaatattgga	ataanagtca	gcagtgatac	300
attctcttct	gaacttttaga	ttttctagaa	aaatatgtaa	tagtgatcag	gaagagctct	360
tgttcaaaag	tacaacnaag	caatgttccc	ttaccatagg	ccttaattca	aactttgatc	420
catttcactc	ccatcacggg	agtcaatgct	acctggggaca	cttgtatttt	gttcatnctg	480
ancntggctt	aa					492

<210> 198

<211> 478

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(478)

<223> n = A,T,C or G

<400> 198

tttnttttgn	atttcantct	gtannaanta	ttttcattat	gtttattana	aaaatatnaa	60
tgtntocacn	acaaatcatn	ttacntnagt	aagaggccan	ctacattgta	caacatacac	120
tgagtatatt	ttgaaaagga	caagttttaa	gtanacncat	attgccganc	atancacatt	180
tatacatggc	ttgattgata	tttagcacag	canaaactga	gtgagttacc	agaaanaaat	240
nataatgtgc	aatcngattt	aagatacaaa	acagatccta	tggtacatan	catcntgtag	300
gagttgtggc	tttatgttta	ctgaaagtca	atgcagttcc	tgtacaaaga	gatggccgta	360
agcattctag	tacctctact	ccatgggttaa	gaatcgtaca	cttatgttta	catatgtnc	420
gggtaagaat	tgtgttaagt	naanttatgg	agagggccan	gagaaaaatt	tgatncaa	478

<210> 199

<211> 482

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(482)

<223> n = A,T,C or G

<400> 199

agtgacttgt	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagacct	60
tgctagttcc	tgtcatctat	tcgctactaa	atgcagactg	gagggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaactctatt	cctacttgta	cggactttga	180
agtgattcag	tttctctac	ggatgagaga	ctggctcaag	aatatcctca	tcagacttta	240
tgaagccnac	tctgaacacg	ctggttatct	nagatgagaa	ncagagaaat	aaagtcnaga	300

```

aaatttacct ggangaaaag aggctttngg ctggggacca tccattgaa cttctcttta 360
anggacttta agaanaaaact accacatgtn tgtngtatcc tgggtgcngg ccgtttantg 420
aacntngacn ncacccttnt ggaatanant cttgacngcn tectgaactt gctcctctgc 480
ga 482

```

```

<210> 200
<211> 270
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

```

```

<400> 200
cggccgcaag tgcaactcca gctggggccg tgcggacgaa gattctgcca gcagttggtc 60
cgactgcgac gacggcgcg gcgacagtcg caggtgcagc gcgggcgcct ggggtcttgc 120
aaggctgagc tgacgccgca gaggtcgtgt cacgtcccac gacctgacg ccgtcgggga 180
cagccggaac agagcccggg gaangcggga ggccctcggg agcccctcgg gaagggcggc 240
ccgagagata cgcaggtgca ggtggccgcc 270

```

```

<210> 201
<211> 419
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(419)
<223> n = A,T,C or G

```

```

<400> 201
tttttttttt ttttgaatc tactgcgagc acagcaggtc agcaacaagt ttattttgca 60
gctagcaagg taacagggtg gggcatggtt acatgttcag gtcaacttcc ttgtcgtgg 120
ttgattggtt tgtctttatg ggggcggggt ggggtagggg aaancgaagc anaantaaca 180
tggagtgggt gcaccctccc tgtagaacct ggttacnaaa gcttggggca gttcacctgg 240
tctgtgaccg tcattttctt gacatcaatg ttattagaag tcaggatata ttttagagag 300
tccactgtnt ctggaggagg attagggttt cttgccanaa tccaancaa atccacntga 360
aaaagtggga tgatncangt acngaatacc ganggcatan ttctcatant cggtggccca 419

```

```

<210> 202
<211> 509
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(509)
<223> n = A,T,C or G

```

```

<400> 202
ttnttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tggcacttaa tccattttta tttcaaaatg tctacaaant ttnaatncnc cattatacng 120

```


gtnattttnc	aaaatctaaa	nnttattcaa	atntnagcca	aantccttac	ncaaatnnaa	180
tacnncnaaa	aatcaaaaaat	atacntntct	ttcagcaaac	ttngttaçat	aaattaaaaa	240
aatatatacg	gctgggtgttt	tcaaagtaca	attatcttaa	cactgcaaac	atnttttnnaa	300
ggaactaaaa	taaaaaaaaa	cactnccgca	aagggttaaag	ggaacaacaa	attcntttta	360
caacancnnc	nattataaaa	atcatacttc	aaatccttagg	ggaatatata	cttcacacng	420
ggatcttaac	ttttactnca	ctttgtttat	ttttttanaa	ccattgtntt	gggccaaca	480
caatggnaat	nccnccnnc	tgactagt				509

<210> 203
 <211> 583
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(583)
 <223> n = A,T,C or G

<400> 203	
tttttttttt	ttttttttga cccccctctt ataaaaaaca agttaccatt ttatttttact 60
tacacatatt	tattttataa ttggtattag atattcaaaa ggcagctttt aaaatcaaac 120
taaatggaaa	ctgccttaga tacataattc ttaggaatta gcttaaaatc tgcctaaagt 180
gaaaatcttc	tctagctctt ttgactgtaa attttttgact cttgtaaaac atccaaattc 240
atttttcttg	tctttaaaaat tatctaattc ttccattttt tccctattcc aagtcatttt 300
gcttctctag	cctcatttcc tagctcttat ctactattag taagtggctt ttttcctaaa 360
agggaaaaca	ggaagagana atggcacaca aaacaaacat tttatattca tatttctacc 420
tacgttaata	aaatagcatt ttgtgaagcc agctcaaaag aaggcttaga tccttttatg 480
tccatttttag	tcactaaacg atatcnaaag tgccagaatg caaaagggtt gtgaacattt 540
attcaaaagc	taatataaga tatttcacat actcatcttt ctg 583

<210> 204
 <211> 589
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(589)
 <223> n = A,T,C or G

<400> 204	
ttttttttnt	tttttttttt ttttttnctc ttcttttttt ttganaatga ggatcgagtt 60
tttcactctc	tagatagggc atgaagaaaa ctcatctttc cagcttttaa ataacaatca 120
aatctcttat	gctatatcat attttaagtt aaactaatga gtcactggct tatcttctcc 180
tgaaggaaat	ctgttcattc ttctcattca tatagttata tcaagtacta ccttgcatat 240
tgagagggtt	ttcttctcta ttacacata tatttccatg tgaatttgta tcaaaccttt 300
attttcatgc	aaactagaaa ataatgtntt cttttgcata agagaagaga acaatatnag 360
cattacaaaa	ctgctcaaat tgtttgtaa gnttatccat tataattagt tnggcaggag 420
ctaatacaaa	tcacatttac ngacnagcaa taataaaact gaagtaccag ttaaatatcc 480
aaaataatta	aaggaacatt tttagcctgg gtataattag ctaattcact ttacaagcat 540
ttattnagaa	tgaattcaca tgttattatt ccttagccca acacaatgg 589

<210> 205
 <211> 545

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(545)
 <223> n = A,T,C or G

<400> 205

tttttntttt	ttttttcagt	aataatcaga	acaatattta	tttttatatt	taaaattcat	60
agaaaagtgc	cttacattta	ataaaaagttt	gtttctcaaa	gtgatcagag	gaattagata	120
tngtcttgaa	caccaatatt	aatttgagga	aaatacacca	aaatacatta	agtaaattat	180
ttaagatcat	agagcttgta	agtgaaaaga	taaaatttga	cctcagaaac	tctgagcatt	240
aaaaatccac	tattagcaaa	taaattacta	tggacttctt	gctttaattt	tgtgatgaat	300
atgggggtgc	actggtaaac	caacacattc	tgaaggatac	attacttagt	gatagattct	360
tatgtacttt	gctanatnac	gtggatatga	gttgacaagt	ttctctttct	tcaatctttt	420
aaggggcnga	ngaaatgagg	aagaaaagaa	aaggattacg	catactgttc	tttctatngg	480
aaggattaga	tatgtttcct	ttgccaatat	taaaaaata	ataatgttta	ctactagtga	540
aacct						545

<210> 206
 <211> 487
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(487)
 <223> n = A,T,C or G

<400> 206

tttttttttt	tttttttagtc	aagtttctna	tttttattat	aattaaagtc	ttggtcattt	60
cattttattag	ctctgaact	tacatattta	aattaaagaa	acgttnttag	acaactgtna	120
caatttataa	atgtaagggtg	ccattattga	gtanatatat	tcctccaaga	gtggatgtgt	180
cccttctccc	accaactaat	gaancagcaa	cattagttta	attttattag	tagatnatac	240
actgctgcaa	acgctaattc	tcttctccat	ccccatgtng	atattgtgta	tatgtgtgag	300
ttggtnagaa	tgcatcanca	atctnacaat	caacagcaag	atgaagctag	gcntgggctt	360
tcggtgaaaa	tagactgtgt	ctgtctgaat	caaatgatct	gacctatcct	cgggtggcaag	420
aactcttcga	accgcttcct	caaaggcngc	tgccacattt	gtggcntctn	ttgcacttgt	480
ttcaaaa						487

<210> 207
 <211> 332
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(332)
 <223> n = A,T,C or G

<400> 207

tgaattggct	aaaagactgc	atttttanaa	ctagcaactc	ttatttcttt	cctttaaaaa	60
tacatagcat	taaatcccaa	atcctattta	aagacctgac	agcttgagaa	ggtcactact	120

```

gcatttatag gaccttctgg tggttctgct gttacntttg aantctgaca atccttgana 180
atctttgcat gcagaggagg taaaaggat tggattttca cagaggaana acacagcgca 240
gaaatgaagg ggccaggctt actgagcttg tccactggag ggctcatggg tgggacatgg 300
aaaagaaggc agcctaggcc ctggggagcc ca 332

```

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<210> 208
<211> 524
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(524)
<223> n = A,T,C or G

```

```

<400> 208
agggcgtggt gcgaggggcg ttactgtttt gtctcagtaa caataaatat aaaaagactg 60
gttgtgttcc ggccccatcc aaccacgaag ttgattttct ttgtgtgcag agtgactgat 120
tttaaaggac atggagcttg tcacaatgtc acaatgtcac agtgtgaagg gcacactcac 180
tccgcgtga ttcacattta gcaaccaaca atagctcatg agtccatact tgtaaatact 240
tttggcagaa tacttnttga aacttgcaga tgataactaa gatccaagat atttccaaa 300
gtaaatagaa gtgggtcata atattaatta cctgttcaca tcagcttcca tttaacaagtc 360
atgagccag aactgacat caaactaagc ccacttagac tctcaccac cagtctgtcc 420
tgtcatcaga caggaggctg tcaccttgac caaattctca ccagtcaatc atctatccaa 480
aaaccattac ctgatccact tccggtaatg caccaccttg gtga 524

```

```

<210> 209
<211> 159
<212> DNA
<213> Homo sapien

```

```

<400> 209
gggtgaggaa atccagagtt gccatggaga aaattccagt gtcagcattc ttgctccttg 60
tggccctctc ctacactctg gccagagata ccacagtcaa acctggagcc aaaaaggaca 120
caaaggactc tcgacccaaa ctgcccaga cctctcca 159

```

```

<210> 210
<211> 256
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G

```

```

<400> 210
actccctggc agacaaaggc agaggagaga gctctgttag ttctgtgttg ttgaactgcc 60
actgaatttc ttccacttg gactattaca tgccanttga gggactaatg gaaaaacgta 120
tggggagatt ttanccaatt tangtntgta aatggggaga ctggggcagg cgggagagat 180
ttgcagggtg naaatgggan ggctggtttg ttanatgaac agggacatag gaggtaggca 240
ccaggatgct aatatca 256

```

```

<210> 211

```

<211> 264
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 211
 acattgtttt tttgagataa agcattgaga gagctctcct taacgtgaca caatggaagg 60
 actggaacac ataccacat cttgttctg agggataatt ttctgataaa gtcttgctgt 120
 atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga 180
 ggggagatac attcngaaag aggactgaaa gaaatactca agtnggaaaa cagaaaaaga 240
 aaaaaaggag caaatgagaa gcct 264

<210> 212
 <211> 328
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

<400> 212
 acccaaaaat ccaatgctga atatttggtc tcattattcc canattcttt gattgtcaaa 60
 ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag 120
 gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaaact tgcccggcag 180
 ttnaattttca ttcccattga cttgggatcc ttatcatcag ccagagagat tgaaaaattta 240
 cccctacnac tctttactct ctgganaggg ccagtggtgg tagctataag cttggccaca 300
 ttttttttct ctttattcct ttgtcaga 328

<210> 213
 <211> 250
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

<400> 213
 acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
 cattatgcc aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt 180
 ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatc tctctnacct 240
 tctcatcggt 250

<210> 214
 <211> 444
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(444)

<223> n = A,T,C or G

<400> 214

acccagaatc	caatgctgaa	tatttggtt	cattattccc	agattctttg	attgtcaaag	60
gatttaaatgt	tgtctcagct	tgggcacttc	agttaggacc	taaggatgcc	agccggcagg	120
tttatatatg	cagcaacaat	attcaagcgc	gacaacaggt	tattgaactt	gcccgccagt	180
tgaatttcat	tcccattgac	ttgggaccc	tatcatcagc	canagagatt	gaaaatttac	240
ccctacgact	ctttactctc	tggagagggc	cagtgggtgt	agctataagc	ttggccacat	300
ttttttttcc	ttttattcctt	tgtcagagat	gcgattcatc	catatgctan	aaaccaacag	360
agtgactttt	acaaaattcc	tataganatt	gtgaataaaa	ccttacctat	agttgccatt	420
actttgctct	ccctaataata	cctc				444

<210> 215

<211> 366

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(366)

<223> n = A,T,C or G

<400> 215

acttatgagc	agagcgacat	atccaagtgt	anactgaata	aaactgaatt	ctctccagtt	60
taaagcattg	ctcactgaag	ggatagaagt	gactgccagg	agggaaagta	agccaaggct	120
cattatgcc	aagganatat	acattttcaat	tctccaaact	tcttctctcat	tccaagagtt	180
ttcaatat	gcatgaacct	gctgataagc	catgttgaga	aacaaatc	tctctgacct	240
tctcatcggt	aagcagaggc	tgtaggcaac	atggaccata	gcgaanaaaa	aacttagtaa	300
tccaagctgt	tttctacact	gtaaccaggt	ttccaaccaa	ggtggaaatc	tcctatactt	360
ggtgcc						366

<210> 216

<211> 260

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(260)

<223> n = A,T,C or G

<400> 216

ctgtataaac	agaactccac	tgcangagg	agggccgggc	caggagaatc	tccgcttgct	60
caagacagg	gcctaaggag	ggtctccaca	ctgctnntaa	gggctnttnc	atTTTTTat	120
taataaaaa	tnnaaaaggc	ctcttctcaa	ctTTTTTccc	ttnggctgga	aaatttaaaa	180
atcaaaaaat	tcctnaagtt	ntcaagctat	catatatact	ntatcctgaa	aaagcaacat	240
aattcttct	tcctctctt					260

<210> 217

<211> 262
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(262)
 <223> n = A,T,C or G

<400> 217
 acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60
 tcttgcctat aattttctat tttaataagg aaatagcaaa ttgggggtggg gggaatgtag 120
 ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180
 atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240
 atatccttca tgcttgtaaa gt 262

<210> 218
 <211> 205
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(205)
 <223> n = A,T,C or G

<400> 218
 accaaggtgg tgcattaccg gaantggatc aangacacca tcgtggccaa cccctgagca 60
 cccctatcaa ctcccttttg tagtaaaactt ggaaccttgg aaatgaccag gccaaagactc 120
 aggcctcccc agttctactg acctttgtcc ttangntna ngtcagggt tgctaggaaa 180
 anaaatcagc agacacagggt gtaaa 205

<210> 219
 <211> 114
 <212> DNA
 <213> Homo sapien

<400> 219
 tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60
 accacgaagt tgatttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220
 <211> 93
 <212> DNA
 <213> Homo sapien

<400> 220
 actagccagc acaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60
 aaataagcat ttagtgctca gtcctactg agt 93

<210> 221
 <211> 167
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(167)
 <223> n = A,T,C or G

<400> 221
 actangtgca ggtg'gcgaca aatatttgtc gatattccct tcatcttggg ttccatgagg 60
 tcttttgccc agcctgtggc tctactgtag taagtttctg ctgatgagga gccagnatgc 120
 cccccactac cttccctgac gctccccana aatcacccaa cctctgt 167

<210> 222
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 222
 agggcgtggt gcggagggcg gtactgacct cattagtagg aggatgcatt ctggcacccc 60
 gttcttcacc tgtcccccaa tccttaaaaag gccatactgc ataaagtcaa caacagataa 120
 atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180
 ttttctcttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240
 taggtgagca tgattagaga gcttgtaggt tgcttttaca tatatctggc atatttgagt 300
 ctcgatatcaa aacaatagat tggtaaaggt ggtattattg tattgataag t 351

<210> 223
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 223
 aaaacaaaca aacaaaaaaa acaattcttc attcagaaaa attatcttag ggactgatat 60
 tggtaattat ggtcaattta atwrtrttkt ggggcatttc cttacattgt cttgacaaga 120
 ttaaaatgtc tgtgccaaaa ttttgtattt ttttggaga cttcttatca aaagtaatgc 180
 tgccaaagga agtctaagga attagtagtg ttcccmtcac ttgtttggag tgtgctattc 240
 taaaagattt tgatttcctg gaatgacaat tatattttta ctttggtggg ggaaanagtt 300
 ataggaccac agtcttcact tctgatactt gttaaattaat cttttattgc acttgttttg 360
 accattaagc tatatgttta aaa 383

<210> 224
 <211> 320
 <212> DNA
 <213> Homo sapien

<400> 224
 cccctgaagg cttcttggtta gaaaatagta cagttacaac caataggaac aacaaaaaga 60
 aaaagtgtgt gacattgtag tagggagtgt gtacccttta ctccccatca aaaaaaaat 120
 ggatacatgg ttaaaggata raagggaat attttatcat atgttctaaa agagaaggaa 180
 gagaaaatac tactttctcr aaatggaagc ccttaaagggt gctttgatac tgaaggacac 240
 aaatgtggcc gtccatcctc ctttaragtt gcatgacttg gacacggtaa ctgttgacgt 300

tttaractcm gcattgtgac

320

<210> 225
<211> 1214
<212> DNA
<213> Homo sapien

<400> 225

gaggactgca	gcccgcactc	gcagccctgg	caggcggcac	tggatcatgga	aaacgaattg	60
ttctgctcgg	gcgtccctgg	gcatccgcag	tgggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatggtgg	aggccagcct	ctccgtacgg	cacccagagt	acaacagacc	cttgctcgtc	240
aacgacctca	tgctcatcaa	ggtggacgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	gcctcgtttc	tggctggggg	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	ggtggtgtct	420
gaggaggtct	gcagtaagct	ctatgacccg	ctgtaccacc	ccagcatgtt	ctgcgccggc	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	gggggcccct	gatctgcaac	540
gggtacttgc	agggccttgc	gtctttcgga	aaagccccgt	gtggccaagt	tggcgtgcca	600
ggtgtctaca	ccaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaaggaatt	720
caggaatatc	tgttcccagc	ccctcctccc	tcaggcccag	gagtccaggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccctcctc	ccctcagacc	caggagtcca	840
gacccccag	cccctcctcc	ctcagaccca	ggagtccagc	ccctcctccc	tcagaccagc	900
gagtccagac	ccccagcccc	ctcctccctc	agaccagggg	gtccaggccc	ccaacccctc	960
ctccctcaga	ctcagaggtc	caagccccca	acccctcctt	ccccagaccc	agaggtccag	1020
gtcccagccc	ctcctccctc	agaccagcgc	gtccaatgcc	acctagactc	tcctgttaca	1080
cagtgcctcc	ttgtggcacg	ttgacccaac	cttaccagtt	ggtttttcat	ttttgtccc	1140
tttcccctag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226
<211> 119
<212> DNA
<213> Homo sapien

<400> 226

accagtatg	tgcagggaga	cggaacccca	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227
<211> 818
<212> DNA
<213> Homo sapien

<400> 227

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggtctctcc	ccagccctga	60
tttttgctac	atatggggtc	ctttttcatt	ctttgcaaaa	acactggggt	ttctgagaac	120
acggacgggt	cttagcacia	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aattttcctc	ctctggagga	aaggtggtga	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300
gcttgctccc	ttccaatcag	ccacttctga	gaacccccat	ctaacttctc	actggaaaag	360
agggcctcct	caggcagcgt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaaggggtg	caccctcagc	agagaagccg	agagcttaac	tctggtcgtt	tccagagaca	480
acctgctggc	tgtcttggga	tgcccccagc	ctttgagagg	ccactacccc	atgaacttct	540

gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcatgagagg	600
gacaggctct	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggttttcag	cctagatggg	agtcgtgt			818

<210> 228

<211> 744

<212> DNA

<213> Homo sapien

<400> 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaaacga	gcctcctcct	tggaagatgg	aagaccgtgt	120
tcgtggccga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgctcgggtc	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtcc	acctctgcag	360
gctggcagct	gaatggcctg	ccggtggctc	tgtggcaaga	tcacactgag	atcgtatggg	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacgggt	ttggccactc	ccttctaaaa	cacaggcgcc	ctcctggtga	cagtgaccgc	540
ccgtgggtat	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttgggggttg	600
ttcttttctg	taatgttctt	ctgtgttgct	agctgtcttc	atttcctggg	ctaagcagca	660
ttgggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttcaactct	aagtagctgg	tggt				744

<210> 229

<211> 300

<212> DNA

<213> Homo sapien

<400> 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaagggtgc	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacagct	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggct	ctatttttcc	acctgcagag	gatccagctc	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

<210> 230

<211> 301

<212> DNA

<213> Homo sapien

<400> 230

cagcagaaca	aatacaaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcctggttca	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cgggaaggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

<210> 231

<211> 301

<212> DNA

<213> Homo sapien

<400> 231

gcaagcacgc	tggcaaactct	ctgtcaggtc	agctccagag	aagccattag	tcatttttagc	60
caggaactcc	aagtccacat	ccttggcaac	tggggacttg	cgcaggttag	ccttgaggat	120
ggcaacacgg	gactttctcat	caggaagtgg	gatgtagatg	agctgatcaa	gacggccagg	180
tctgaggatg	gcaggatcaa	tgatgtcagg	ccggttggtg	ccgccaatga	tgaacacatt	240
tttttttgtg	gacatgccat	ccattttctgt	caggatctgg	ttgatgactc	ggtcagcagc	300
c						301

<210> 232

<211> 301

<212> DNA

<213> Homo sapien

<400> 232

agtaggtatt	tcgtgagaag	ttcaacacca	aaactggaac	atagttctcc	ttcaagtgtt	60
ggcgacagcg	gggcttcctg	attctggaat	ataactttgt	gtaaattaac	agccacctat	120
agaagagtcc	atctgctgtg	aaggagagac	agagaactct	gggttcctgc	gtcctgtcca	180
cgtgctgtac	caagtgtctg	tgccagcctg	ttacctgttc	tactgaaaa	tctggctaata	240
gctcttgtgt	atcacttctg	attctgacaa	tcaatcaatc	aatggcctag	agcactgact	300
g						301

<210> 233

<211> 301

<212> DNA

<213> Homo sapien

<400> 233

atgactgact	tcccagtaag	gctctctaag	gggtaagtag	gaggatccac	aggatttgag	60
atgctaaggc	cccagagatc	gtttgatcca	accctcttat	tttcagaggg	gaaaatgggg	120
cctagaagtt	acagagcatc	tagctggtgc	gctggcaccc	ctggcctcac	acagactccc	180
gagtagctgg	gactacaggc	acacagtcac	tgaagcaggc	cctgttagca	attctatgcg	240
tacaaattaa	catgagatga	gtagagactt	tattgagaaa	gcaagagaaa	atcctatcaa	300
c						301

<210> 234

<211> 301

<212> DNA

<213> Homo sapien

<400> 234

aggtcctaca	catcgagact	catccatgat	tgatatgaat	ttaaaaatta	caagcaaaga	60
catttttatc	atcatgatgc	tttcttttgt	ttcttctttt	cgttttcttc	tttttctttt	120
tcaatttcag	caacatactt	ctcaattttc	tcaggattta	aaatcttgag	ggattgatct	180
cgctcatga	cagcaagttc	aatgtttttg	ccacctgact	gaaccacttc	caggagtgcc	240
ttgatcacca	gcttaatggg	cagatcatct	gcttcaatgg	cttcgtcagt	atagttcttc	300
t						301

<210> 235

<211> 283

<212> DNA

<213> Homo sapien

<400> 235

tggggctgtg	catcaggcgg	gtttgagaaa	tattcaattc	tcagcagaag	ccagaatttg	60
aattccctca	tcttttaggg	aatcatttac	caggtttgga	gaggattcag	acagctcagg	120
tgctttcact	aatgtctctg	aacttctgtc	cctctttgtt	catggatagt	ccaataaata	180
atgttatctt	tgaactgatg	ctcataggag	agaatataag	aactctgagt	gatatcaaca	240
ttagggattc	aaagaaatat	tagatttaag	ctcacactgg	tca		283

<210> 236

<211> 301

<212> DNA

<213> Homo sapien

<400> 236

aggtcctcca	ccaactgcct	gaagcacggt	taaaattggg	aagaagtata	gtgcagcata	60
aatactttta	aatcgatcag	atttccctaa	cccacatgca	atcttcttca	ccagaagagg	120
tcggagcagc	atcattaata	ccaagcagaa	tgcgtaatag	ataaatacaa	tggtatatag	180
tgggtagacg	gcttcatgag	tacagtgtac	tgtgggtatcg	taatctggac	ttggggttga	240
aagcatcgtg	taccagtcag	aaagcatcaa	tactcgacat	gaacgaatat	aaagaacacc	300
a						301

<210> 237

<211> 301

<212> DNA

<213> Homo sapien

<400> 237

cagtggtagt	ggtgggtggac	gtggcggttg	tcgtgggtgcc	ttttttggtg	cccgtcacaa	60
actcaatttt	tgttcgctcc	ttttttggcct	tttccaattt	gtccatctca	atttttctggg	120
ccttggtctaa	tgccatcatag	taggagtcct	cagaccagcc	atggggatca	aacatatacct	180
ttgggtagtt	ggtgcccaagc	tcgtcaatgg	cacagaatgg	atcagcttct	cgtaaatacta	240
gggttccgaa	attcttttctt	ccttttgata	atgtagtcca	tatccattcc	ctccttttate	300
t						301

<210> 238

<211> 301

<212> DNA

<213> Homo sapien

<400> 238

gggcaggttt	tttttttttt	ttttttgatg	gtgcagaccc	ttgctttatt	tgtctgactt	60
gttcacagtt	cagccccctg	ctcagaaaac	caacgggcca	gctaaggaga	ggaggaggca	120
ccttgagact	tccggagtcg	aggctctcca	gggttcccca	gcccatcaat	cattttctgc	180
acccccctgc	tgggaagcag	ctccctgggg	ggtgggaatg	ggtgactaga	agggatttca	240
gtgtgggacc	cagggtctgt	tcttcacagt	aggaggtgga	agggatgact	aatttcttta	300
t						301

<210> 239

<211> 239

<212> DNA

<213> Homo sapien

<400> 239

ataagcagct	agggaattct	ttatttagta	atgtcctaac	ataaaaagttc	acataactgc	60
ttctgtcaaa	ccatgatata	gagctttgtg	acaaccaga	aataactaag	agaaggcaaa	120

cataatacct tagagatcaa gaaacattta cacagttcaa ctgttttaaaa atagctcaac 180
 attcagccag tgagtagagt gtgaatgcc a gcatacacag tatacaggtc cttcaggga 239

<210> 240
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 240
 ggtcctaag aagcagcagc ttccacattt taacgcagggt ttacgggtgat actgtccttt 60
 gggatctgcc ctccagtgg aaccttttaag gaagaagtgg gcccaagcta agttccacat 120
 gctgggtgag ccagatgact tctgttccct ggtaactttc ttcaatgggg cgaatggggg 180
 ctgccagggt tttaaaatca tgcttcatct tgaagcacac ggtaacttca cctcctcac 240
 gctgtgggtg tactttgatg aaaataccca ctttgttggc ctttctgaag ctataatgtc 300

<210> 241
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 241
 gaggtctggt gctgaggtct ctgggctagg aagaggaggt ctgtggagct ggaagccaga 60
 cctcttttga ggaaactcca gcagctatgt tgggtgtctct gagggaatgc aacaaggctg 120
 ctcttccatg tattggaaaa ctgcaaaactg gactcaactg gaaggaagtg ctgctgccag 180
 tgtgaagaac cagcctgagg tgacagaaac ggaagcaaac aggaacagcc agtcttttct 240
 tctctctct gtcatacagg ctctctcaag catcctttgt tgtcaggggc ctaaaaggga 300
 g 301

<210> 242
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 242
 ccgaggtcct gggatgcaac caatcactct gtttcacgtg actttttatca ccatacaatt 60
 tgtggcattt cctcattttc tacattgtag aatcaagagt gtaaaataat gtatatcgat 120
 gtcttcaaga atatatcatt cctttttcac tagaaccat tcaaaatata agtcaagaat 180
 cttaatatca acaaataat caagcaaact ggaaggcaga ataactacca taatttagta 240
 taagtaccca aagttttata aatcaaaagc cctaatagata accattttta gaattcaatc 300
 a 301

<210> 243
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 243
 aggtaagtcc cagtttgaag ctcaaaagat ctggtatgag cataggctca tcgacgacat 60
 ggtggcccaa gctatgaaat cagagggagg cttcatctgg gcctgtaaaa actatgatgg 120
 tgacgtgcag tcggactctg tggcccaagg gtatggctct ctggcatga tgaccagcgt 180
 gctggtttgt ccagatggca agacagtaga agcagaggct gccacggga ctgtaacccg 240
 tcaactaccg atgttcaga aaggacagga gacgtccacc aatcccattg cttccatttt 300
 t 301

<210> 244
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 244
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60
 gtcacatgaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120
 ccaggacac tggaaacagt tgacactgta aggtgcttgc tccccaagac acatcctaaa 180
 aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc ccttcttatt tatgtgaaca 240
 actggtttgct ttttgtgtat cttttttaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 245
 gtctgagtat ttaaaatggt attgaaatta tccccaacca atggttagaaa agaaaagaggt 60
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240
 agctaataaa atgaaagacc taatttctaa agcaattctt tataattttac aaagttttaa 300
 g 301

<210> 246
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 246
 ggtctgtcct acaatgcctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60
 acctgggctt attttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120
 agtgcttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240
 caaatgtgtc ttacaaaaca cgttcctaac aaggtatgct ttacactacc aatgcagaaa 300
 c 301

<210> 247
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 247
 aggtcctttg gcagggtcga tggatcagag ctcaaactgg agggaaaaggc atttcgggta 60
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aagggtgttt cccccacgct 120
 gtgtcctgtg ttcagggtcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180
 ctttgatgat caaggttggg gcttaagtgg attaaggagg gcaagttctg ggttccttgc 240
 cttttcaaac catgaagtca ggctctgtat cctcctttt cctaactgat attctaacta 300
 a 301

<210> 248
 <211> 301
 <212> DNA

<213> Homo sapien

<400> 248

```

aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact      60
attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttagaatt      120
acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag      180
gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag      240
ctaagagac  tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc      300
c                                                    301

```

<210> 249

<211> 301

<212> DNA

<213> Homo sapien

<400> 249

```

gtccagagga agcacctggg gctgaactag gcttgccctg ctgtgaactt gcacttggag      60
ccctgacgct gctgtttctc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccggcc      120
ccagggagac acagcagtga ctcagagctg gtcgcacact gtgcctccct cctcaccgcc      180
catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag      240
actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt      300
a                                                    301

```

<210> 250

<211> 301

<212> DNA

<213> Homo sapien

<400> 250

```

ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacacttctc      60
cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc      120
cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac      180
ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta      240
caataaaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc      300
a                                                    301

```

<210> 251

<211> 301

<212> DNA

<213> Homo sapien

<400> 251

```

gccgaggtcc tacatttggc ccagtttccc cctgcatacct ctccagggcc cctgcctcat      60
agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat      120
ggcaggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct      180
cattgggatc aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccggaa      240
cctctggagg ggggcagtgg aatcccagct ccaggacgga tcctgtcgaa aagatatcct      300
c                                                    301

```

<210> 252

<211> 301

<212> DNA

<213> Homo sapien

<400> 252
gcaaccaatc actctgtttc acgtgacttt tatcaccata caattttgtgg catttcctca 60
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata 120
tcatttccttt ttcactagga acccattcaa aatataagtc aagaatctta atatcaacaa 180
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag tacccaaagt 240
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc 300
a 301

<210> 253
<211> 301
<212> DNA
<213> Homo sapien

<400> 253
ttccctaaga agatgtttatt ttgttgggtt ttgttccccc tccatctcga ttctcgtacc 60
caactaaaaa aaaaaaataa agaaaaaatg tgctgcgttc tgaaaaataa ctcttagct 120
tggtctgatt gttttcagac cttaaaatat aaacttgttt cacaagcttt aatccatgtg 180
gatttttttt cttagagaac cacaaaacat aaaaggagca agtcggactg aatacctgtt 240
tccatagtgc ccacagggtg ttcctcacat tttctccata ggaaaatgct ttttccaag 300
g 301

<210> 254
<211> 301
<212> DNA
<213> Homo sapien

<400> 254
cgctgcgcct ttcccttggg ggagggggcaa ggccagaggg ggtccaagtg cagcacgagg 60
aacttgacca attcccttga agcgggtggg ttaaaccctg taaatgggaa caaatcccc 120
ccaaatctct tcattctacc ctggtggact cctgactgta gaattttttg gttgaaacaa 180
gaaaaaaaata aagcttttga cttttcaagg ttgcttaaca ggtactgaaa gactggcctc 240
acttaactg agccaggaaa agctgcagat ttattaatgg gtgtgttagt gtgcagtgcc 300
t 301

<210> 255
<211> 302
<212> DNA
<213> Homo sapien

<400> 255
agcttttttt tttttttttt tttttttttt ttcattaaaa aatagtgtctc tttattataa 60
attactgaaa tgtttctttt ctgaatataa atataaatat gtgcaaagtt tgacttggat 120
tggtgattttg ttgagttctt caagcatctc ctaataccct caagggcctg agtagggggg 180
aggaaaaagg actggaggtg gaatctttat aaaaaacaag agtgattgag gcagattgta 240
aacattatta aaaaacaaga aacaaacaaa aaaatagaga aaaaaaccac cccaacacac 300
aa 302

<210> 256
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 256

gttcagaaaa	acattgaagg	tggtttccca	aagtctaact	agggataccc	cctctagcct	60
aggacctcc	tccccacacc	tcaatccacc	aaaccatcca	taatgcaccc	agataggccc	120
acccccaaaa	gcctggacac	cttgagcaca	cagttatgac	caggacagac	tcctctctat	180
aggcaaatag	ctgctggcaa	actggcatta	cctggtttgt	ggggatgggg	gggcaagtgt	240
gtggcctctc	ggcctgggta	gcaagaacat	tcagggtagg	cctaagttan	tcgtgttagt	300
t						301

<210> 257

<211> 301

<212> DNA

<213> Homo sapien

<400> 257

gttgtggagg	aactctggct	tgctcattaa	gtcctactga	ttttcactat	cccctgaatt	60
tccccactta	tttttgtctt	tcactatcgc	aggccttaga	agaggtctac	ctgcctccag	120
tcttacctag	tccagtctac	cccctggagt	tagaatggcc	atcctgaagt	gaaaagtaat	180
gtcacattac	tcccttcagt	gatttcttgt	agaagtgcc	atccctgaat	gccaccaaga	240
tcttaattctt	cacatcttta	atcttatctc	tttgactcct	ctttacaccg	gagaaggctc	300
c						301

<210> 258

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 258

cagcagtagt	agatgccgta	tgccagcacg	cccagcactc	ccaggatcag	caccagcacc	60
agggggccag	ccaccaggcg	cagaagcaag	ataaacagta	ggctcaagac	cagagccacc	120
cccagggcaa	caagaatcca	ataccaggac	tgggcaaaaat	cttcaaagat	cttaacactg	180
atgtctcggg	cattgaggct	gtcaataana	cgctgatccc	ctgctgtatg	gtggtgtcat	240
tggtgatccc	tgggagcgcc	ggtggagtaa	cgttggtcca	tggaaagcag	cgcccacaac	300
t						301

<210> 259

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 259

tcatatatgc	aaacaaatgc	agactangcc	tcaggcagag	actaaaggac	atctcttggg	60
------------	------------	------------	------------	------------	------------	----


```

gtgtcctgaa gtgatttgga cccctgaggg cagacaccta agtaggaatc ccagtgggaa 120
gcaaagccat aaggaagccc aggattcctt gtgatcagga agtgggcccag gaaggtctgt 180
tccagctcac atctcatctg catgcagcac ggaccggatg cgcccactgg gtcttggtt 240
ccctcccatc ttctcaagca gtgtccttgt tgagccattt gcctccttgg ctccaggtgg 300
c 301

```

```

<210> 260
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 260
ttttttttct ccctaaggaa aaagaaggaa caagtctcat aaaaccaaat aagcaatggt 60
aaggtgtctt aacttgaaaa agattaggag tctctggttt acaagttata attgaatgaa 120
agaactgtaa cagccacagt tggccatttc atgccaatgg cagcaaaca caggattaac 180
tagggcaaaa taaataagtg tgtggaagcc ctgataagtg cttataaac agactgattc 240
actgagacat cagtacctgc ccgggcggcc gctcgagccg aattctgcag atatccatca 300
c 301

```

```

<210> 261
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 261
aaatatctga gcaaactctg taactaatgt gtctccataa aaggctttga actcagtga 60
tctgcttcca tccacgattc tagcaatgac ctctcggaca tcaaagctcc tcttaagggt 120
agcaccaact attccatata attcatcagc aggaaataaa ggctcttcag aaggttcaat 180
ggtgacatcc aattttcttct gataatttag attcctcaca accttcttag ttaagtgaag 240
ggcatgatga tcatccaaag ccagtggtc acttactcca gactttctgc aatgaagatc 300
a 301

```

```

<210> 262
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 262
gaggagagcc tgttacagca ttgtgaagca cagaatactc caggagtatt tgtaattgtc 60
tgtgagcttc ttgccgcaag tctctcagaa atttaaaaag atgcaaatac ctgagtcacc 120
cctagacttc ctaaaccaga tctctggtgg ctggaacctg gcaactctga ttgtaatga 180
gggctttctg gtgcacacct aattttgtgc atctttgccc taaatcctgg attagtcccc 240
catcattacc cccacattat aatgggatag attcagagca gatactctcc agcaaagaat 300
c 301

```

```

<210> 263
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

<400> 263
 ttttagcttgt ggtaaatgac tcacaaaact gatttttaaaa tcaagttaat gtgaattttg 60
 aaaattacta cttaatccta attcacata acaatggcat taaggtttga cttgagttgg 120
 ttcttagtat tatttatggg aaataggctc ttaccacttg caaataactg gccacatcat 180
 taatgactga cttcccagta aggctctcta aggggtaagt angaggatcc acaggatttg 240
 agatgctaag gccccagaga tcgtttgatc caaccctctt attttcagag gggaaaatgg 300
 g 301

<210> 264
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 264
 aaagacgtta aaccactcta ctaccacttg tggaactctc aaagggtaaa tgacaaaacc 60
 aatgaatgac tctaaaaaca atatttacat ttaatggttt gtagacaata aaaaaacaag 120
 gtggatagat ctagaattgt aacattttta gaaaaccata scatttgaca gatgagaaag 180
 ctcaattata gatgcaaagt tataactaaa ctactatagt agtaaagaaa tacatttcac 240
 acccttcata taaattcact atcttggctt gaggcactcc ataaaatgta tcacgtgcat 300
 a 301

<210> 265
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 265
 tgccccagtt atgtgtaagt gtatccgcac ccagaggtaa aactacactg tcattctttgt 60
 cttcttgtga cgcagtattt cttctctggg gagaagccgg gaagtcttct cctggctcta 120
 catattcttg gaagtctcta atcaactttt gttccatttg tttcatttct tcaggagggg 180
 ttttcagttt gtcaacatgt tctctaaca cacttgccca tttctgtaaa gaatccaaag 240
 cagtccaagg ctttgacatg tcaacaacca gcataactag agtatccttc agagatacgg 300
 c 301

<210> 266
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 266
 taccgtctgc ccttcctccc atccaggcca tctgcgaatc tacatgggtc ctcctattcg 60
 acaccagatc actctttcct ctaccacag gcttgctatg agcaagagac acaacctcct 120
 ctcttctgtg ttccagcttc ttttcctggt cttcccaccc cttaagtctt attcctgggg 180
 atagagacac caatacccat aacctctctc ctaagcctcc ttataaccca ggggtgcacag 240
 cacagactcc tgacaactgg taaggccaat gaactgggag ctcacagctg gctgtgcctg 300
 a 301

<210> 267
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 267

```

aaagagcaca ggccagctca gcctgccctg gccatctaga ctcagcctgg ctccatggg 60
gttctcagtg ctgagtccat ccaggaaaag ctcacctaga ccttctgagg ctgaatcttc 120
atcctcacag gcagcttctg agagcctgat attcctagcc ttgatggctt ggagtaaagc 180
ctcattctga ttcctctcct tcttttcttt caagttggct ttcctcacat cctctgttct 240
aattcgcttc agcttggtctg ctttagccct catttccaga agcttcttct ctttggcatc 300
t 301

```

```

<210> 268
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 268
aatgtctcac tcaactactt cccagcctac cgtggcctaa ttctgggagt tttcttctta 60
gatcttgga gagctgggtc ttctaaggag aaggaggaag gacagatgta actttggatc 120
tcgaagagga agtctaattg aagtaattag tcaacgggtc ttgttttagac tcttggaata 180
tgctgggtgg ctcagtgagc ctttttgag aaagcaagta ttattcttaa ggagtaacca 240
cttcccattg ttctactttc taccatcatc aattgtatat tatgtattct ttggagaact 300
a 301

```

```

<210> 269
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 269
taacaatata cactagctat ctttttaact gtccatcatt agcaccaatg aagattcaat 60
aaaattacct ttattcacac atctcaaaac aattctgcaa attcttagtg aagtttaact 120
atagtcacag accttaata ttcacattgt tttctatgtc tactgaaaat aagttcacta 180
cttttctgga tattctttac aaaatcttat taaaattcct ggtattatca cccccaatta 240
tacagtagca caaccacctt atgtagtttt tacatgatag ctctgtagaa gtttcacatc 300
t 301

```

```

<210> 270
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 270
cattgaagag cttttgcaa acatcagaac acaagtgcct ataaaattaa ttaagcctta 60
cacaagaata catattcctt ttatttctaa ggagttaaag atagatgtag ctgatgtgga 120
gagcttgctg gtgcagtgca tattggataa cactattcat ggccgaattg atcaagtcaa 180
ccaactcctt gaactggatc atcagaagaa ggggtgggca cgatatactg cactagataa 240
tggaaccaac aactaaattc tctcaccagg ctgtatcagt aaactggctt aacagaaaac 300
a 301

```

```

<210> 271
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)

```

<223> n = A,T,C or G

<400> 271

aaaaggttct	cataagatta	acaattttaa	taaataatttg	atagaacatt	ctttctcatt	60
tttatagctc	atcttttagg	ttgatattca	gttcattgctt	cccttgctgt	tcttgatcca	120
gaattgcaat	cacttcatca	gcctgtattc	gctccaattc	tctataaagt	gggtccaagg	180
tgaaccacag	agccacagca	cacctctttc	ccttggtgac	tgcccttcacc	ccatganggt	240
tctctctcc	agatganaac	tgatcatgcg	cccacatttt	gggttttata	gaagcagtca	300
c						301

<210> 272

<211> 301

<212> DNA

<213> Homo sapien

<400> 272

taaattgcta	agccacagat	aacaccaatc	aaatggaaca	aatcactgtc	ttcaaagtgc	60
ttatcagaaa	accaaagtgg	cctggaatct	tcataatacc	taaacatgcc	gtatttagga	120
tccaataatt	ccctcatgat	gagcaagaaa	aattctttgc	gcacccctcc	tgcatccaca	180
gcatcttctc	caacaaatat	aaccttgagt	ggcttcttgt	aatctatgtt	ctttgttttc	240
ctaaggactt	ccattgcate	tctacaata	ttttctctac	gcaccactag	aattaagcag	300
g						301

<210> 273

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 273

acatgtgtgt	atgtgtatct	ttgggaaaaa	aanaagacat	cttgtttayt	atTTTTTTgg	60
agagangctg	ggacatggat	aatcacwtaa	tttgctayta	tyactttaat	ctgactygaa	120
gaaccgtcta	aaaataaaa	ttaccatgtc	dtatattcct	tatagtatgc	ttatttcacc	180
ttytcttctg	ccagagagag	tatcagtgc	ananatttma	gggtgaamac	atgmatttgt	240
gggacttnty	tttacngagm	acctgccccg	sgcgccctcg	makcngantt	ccgcsananc	300
t						301

<210> 274

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 274

cttatatact	ctttctcaga	ggcaaaagag	gagatgggta	atgtagacaa	ttctttgagg	60
aacagtaa	gattattaga	gagaangaat	ggaccaagga	gacagaaatt	aacttgtaaa	120

tgattctctt	tggaatctga	atgagatcaa	gaggccagct	ttagcttgtg	gaaaagtcca	180
tctaggtatg	gttgcatctt	cgtcttcttt	tctgcagtag	ataatgaggt	aaccgaaggc	240
aattgtgctt	cttttgataa	gaagctttct	tggtcatatc	aggaaattcc	aganaaagtc	300
c						301

<210> 275
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 275						
tcggtgtcag	cagcacgtgg	cattgaacat	tgcaatgtgg	agcccaaacc	acagaaaatg	60
gggtgaaatt	ggccaacttt	ctattaactt	atggtggcaa	ttttgccacc	aacagtaagc	120
tggcccttct	aataaaagaa	aattgaaagg	tttctcacta	aacggaatta	agtagtggag	180
tcaagagact	cccaggcctc	agcgtacctg	cccggggcggc	cgctcgaagc	cgaattctgc	240
agatatccat	cacactggcg	gncgctcgan	catgcatcta	gaaggnccaa	ttcgccctat	300
a						301

<210> 276
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 276						
tgtacacata	ctcaataaat	aaatgactgc	attgtggtat	tattactata	ctgattatat	60
ttatcatgtg	acttctaatt	agaaaatgta	tccaaaagca	aaacagcaga	tatacaaaat	120
taaagagaca	gaagatagac	attaacagat	aaggcaactt	atacattgag	aatccaaatc	180
caatacatth	aaacatttgg	gaaatgaggg	ggacaaatgg	aagccagatc	aaatttgtgt	240
aaaactatth	agtatgtttc	ccttgcttca	tgtctgagaa	ggctctcctt	caatggggat	300
g						301

<210> 277
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 277						
tttgttgatg	tcagtattht	attacttgcg	ttatgagtgc	tcacctggga	aattctaaag	60
atacagagga	cttgaggaga	gcagagcaac	tgaatttaat	ttaaaagaag	gaaaacattg	120
gaatcatggc	actcctgata	ctttcccaaa	tcaacactct	caatgcccc	ccctcgctct	180
caccatagtg	gggagactaa	agtgggccacg	gatttgcctt	angtgtgcag	tgcgttctga	240
gttcnctgtc	gattacatct	gaccagtctc	ctttttccga	agtcnctccg	ttcaatcttg	300
c						301

<210> 278
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 278
 taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60
 aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120
 cagtctctac tgttattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180
 aatgaacatc tcatgtgtgc tcacaatgtt ctggcactat tataagtgtc tcacagggtt 240
 tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300
 c 301

<210> 279
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 279
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60
 gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120
 ttagaccttt accttccagc caccacacag tgcttgatat ttcagagtca gtcattgggt 180
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300
 a 301

<210> 280
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 280
 ggtactggag ttttcctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60
 tagaaagggtg gtggaaccaa attgtggtca atggaaatag gagaatatgg ttctcactct 120
 tgagaaaaaa acctaagatt agcccaggta gttgcctgtâ acttcagttt ttctgcctgg 180
 gtttgatata gtttagggtt ggggttagat taagatctaa attacatcag gacaaagaga 240
 cagactatta actccacagt taattaagga ggtatgttcc atgtttattt gttaaagcag 300
 t 301

<210> 281
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 281
 aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc 60
 gccgagcaat ccaaatcctg aatgaagggg catcttctga aaaaggagat ctgaatctca 120
 atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa 180
 tgtgtagcac actgcgatta cagctaaata acccgatatt gtgtgtcatg tttgcatttc 240
 tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagt gacgtacctc 300
 g 301

<210> 282
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 282
 caggtactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca 60
 tccagaaccc aaaaattaaag aaattcaaaa agacattttg tgggcacctg ctgacacaga 120
 agcgcagaag caaagcccag gcagaacctat gctaacctta cagctcagcc tgcacagaag 180
 cgcagaagca aagcccaggc agaaccatgc taaccttaca gctcagcctg cacagaagcg 240
 cagaagcaaa gccccaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag 300
 a 301

<210> 283
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 283
 atctgtatac ggcagacaaa ctttatarag tgtagagagg tgagcgaaag gatgcaaaaag 60
 cactttgagg gctttataat aatatgctgc ttgaaaaaaa aaatgtgtag ttgatactca 120
 gtgcatctcc agacatagta aggggttgct ctgaccaatc aggtgatcat tttttctatc 180
 acttcccagg ttttatgcaa aaattttggt aaattctata atggtgatat gcattcttta 240
 ggaaacatat acatttttta aaatctattt tatgtaagaa ctgacagacg aatttgcttt 300
 g 301

<210> 284
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 284
 caggtacaaa acgctattaa gtggcttaga atttgaacat ttgtggtcct tatttacttt 60
 gcttcgtgtg tgggcaaagc aacatcttcc cttaaataat attaccaaga aaagcaagaa 120
 gcagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctgg agcagagcat 180
 ggtgagaggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt 240
 actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaatt 300
 a 301

<210> 285
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 285

```

acatcaccat gatcggatcc cccacccatt atacgttgta tgtttacata aatactcttc      60
aatgatcatt agtgttttaa aaaaaatact gaaaactcct tctgcatccc aatctctaac      120
caggaaagca aatgctatth acagacctgc aagccctccc tcaaacnaaa ctatttctgg      180
attaaatatg tctgacttct tttgaggta cactgactagg caaatgctat ttacgatctg      240
caaaagctgt ttgaagagtc aaagccccc tgtgaacacg atttctggac cctgtaacag      300
t                                                                301

```

<210> 286

<211> 301

<212> DNA

<213> Homo sapien

<400> 286

```

taccactgca ttccagcctg ggtgacagag tgagactccg tctccaaaaa aaactttgct      60
tgtatattat ttttgccctta cagtggatca ttctagtagg aaaggacagt aagatttttt      120
atcaaaatgt gtcattgccag taagagatgt tatattcttt tctcatttct tccccacca      180
aaaataagct accatatagc ttataagtct caaatttttg ccttttacta aaatgtgatt      240
gtttctgttc attgtgtatg cttcatcacc tatattaggc aaattccatt ttttcccttg      300
t                                                                301

```

<210> 287

<211> 301

<212> DNA

<213> Homo sapien

<400> 287

```

tacagatctg ggaactaaat attaaaaatg agtgtggctg gatatatgga gaatgttggg      60
cccagaagga acgtagagat cagatattac aacagctttg ttttgagggt tagaaatatg      120
aaatgatttg gttatgaacg cacagttagg gcagcagggc cagaatcctg accctctgcc      180
ccgtggttat ctctctccca gcttggtgc ctcattgtat cacagtattc cattttgttt      240
gttgcatgtc ttgtgaagcc atcaagattt tctcgtctgt tttcctctca ttggtaatgc      300
t                                                                301

```

<210> 288

<211> 301

<212> DNA

<213> Homo sapien

<400> 288

```

gtacacctaa ctgcaaggac agctgaggaa tgtaatgggc agccgctttt aaagaagtag      60
agtcaatagg aagacaaatt ccagttccag ctcagtctgg gtatctgcaa agctgcaaaa      120
gatcttttaa gacaatttca agagaatatt tccttaaaagt tggcaatttg gagatcatac      180
aaaagcatct gcttttgtga tttaatttag ctcattctggc cactggaaga atccaaacag      240
tctgccttaa ttttgatga atgcatgatg gaaattcaat aatttagaaa gttaaaaaaa      300
a                                                                301

```

<210> 289

<211> 301

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 289
 ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtcc tggaaactta 60
 gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg 120
 ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180
 cgttctataa atgaatgtgc tgaagcaaag tgcccatggt ggcgggcgaa aagagaaaga 240
 tgtgttttgt ttggactct ctgtggtccc ttccaatgct gtgggtttcc aaccagnnga 300
 a 301

<210> 290
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 290
 acactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60
 tgactgatct gttcatttct ctcacagctc ttaccccaa aagcttttcc accctaagtg 120
 ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180
 gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc 240
 tgccttgaac aaaaacattt ctccatgtct ctttttcttc atgcctcaag taacagtga 300
 a 301

<210> 291
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 291
 caggtaacaa tttcttctat cctagaaaca tttcatttta tgttggtgaa acataacaac 60
 tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120
 tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat 180
 agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa 240
 acatgagctt cacttcccca ctaactaatt agcatctgtt atttcttaac cgtaatgcct 300
 a 301

<210> 292
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 292

```

accttttagt agtaatgtct aataataaat aagaaatcaa ttttataagg tccatatagc      60
tgtattaaat aatttttaag tttaaaagat aaaataccat catttttaaat gttggtattc      120
aaaaccaaag natataaccg aaaggaaaaa cagatgagac ataaaatgat ttgcnagatg      180
ggaaatatag tasttyatga atgttnatta aattccagtt ataatagtgg ctacacactc      240
tcactacaca cacagacccc acagtcctat atgccacaaa cacatttcca taacttgaaa      300
a                                                                                   301

```

<210> 293

<211> 301

<212> DNA

<213> Homo sapien

<400> 293

```

ggtaccaagt gctggtgccg gcctgttacc tgttctcact gaaaagtctg gctaattgctc      60
ttgtgtagtc acttctgatt ctgacaatca atcaatcaat ggcctagagc actgactggt      120
aacacaaacg tcactagcaa agtagcaaca gctttaagtc taaatacaaa gctgttctgt      180
gtgagaatatt tttaaaaggc tacttgtata ataacccttg tcatttttaa tgtacctcgg      240
ccgcgaccac gctaagccga attctgcaga tatccatcac actggcgggc gctcgagcat      300
g                                                                                   301

```

<210> 294

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 294

```

tgaccataaa caatatacac tagctatctt tttactgtc catcattagc accaatgaag      60
attcaataaaa attaccttta ttcacacatc tcaaaacaat tctgcaaatt cttagtgaag      120
tttaactata gtcacaganc ttaaataatc acattgtttt ctatgtctac tgaaaataag      180
ttcactactt ttctgggata ttctttacaa aatcttatta aaattcctgg tattatcacc      240
cccaattata cagtagcaca accaccttat gtagttttta catgatagct ctgtagaggt      300
t                                                                                   301

```

<210> 295

<211> 305

<212> DNA

<213> Homo sapien

<400> 295

```

gtactctttc tctccctccc tctgaattta attctttcaa cttgcaattt gcaaggatta      60
cacatttcac tgtgatgtat attgtgttgc aaaaaaaaaa gtgtctttgt ttaaaattac      120
ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccactctctga      180
actggtagaa aaacrtctga agagctagtc tatcagcatc tgacagggtga attggatggg      240
tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataat tagtttgggt      300
tctct                                                                                   305

```

<210> 296

<211> 301
 <212> DNA
 <213> Homo sapien

<400> 296
 aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60
 cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120
 attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180
 tttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240
 tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300
 c 301

<210> 297
 <211> 300
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 297
 actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60
 aaggttttga aaaccttgaa ggagaatcat ttgacaaga agtacttaag agtctagaga 120
 acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180
 tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtggtc 240
 accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc acactggcgg 300

<210> 298
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 298
 tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc ccctcccgcg 60
 ggcattctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgccggctg 120
 tgaagctctc agatcaatca cgggaagggc ctggcggtgg tggccacctg gaaccaccct 180
 gtccgtgtctg ttacatttc actaycaggt tttctctggg cattacnatt tgttccccta 240
 caacagtgac ctgtgcattc tgctgtggcc tgctgtgtct gcaggtggct ctacgcgagg 300
 t 301

<210> 299
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 299
 gttttgagac ggagtttcac tcttgttgcc cagactggac tgcaatggca gggctctctgc 60

tcaactgcacc	ctctgcctcc	caggttcgag	caattctcct	gcctcagcct	cccaggtagc	120
tgggattgca	ggctcacgcc	accataccca	gctaattttt	ttgtattttt	agtagagacg	180
gagtttcgcc	atgttggcc	gctggtctca	aactcctgac	ctcaagcgac	ctgcctgcct	240
cggcctccca	aagtgcctgga	attataggca	tgagtcaaca	cgcccagcct	aaagatattt	300
t						301

<210> 300
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 300						
attcagtttt	atttgctgcc	ccagtatctg	taaccaggag	tgccacaaaa	tcttgccaga	60
tatgtccac	acccactggg	aaaggctccc	acctggctac	ttcctctatc	agctgggtca	120
gctgcattcc	acaaggttct	cagcctaata	agtttacta	cctgccagtc	tcaaaactta	180
gtaaagcaag	accatgacat	tccccacgg	aatcagagt	ttgccccacc	gtcttggtac	240
tataaagcct	gcctctaaca	gtccttgctt	cttcacacca	atcccagcgc	catcccccat	300
g						301

<210> 301
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 301						
ttaaattttt	gagaggataa	aaaggacaaa	taatctagaa	atgtgtcttc	ttcagtcctgc	60
agaggacccc	aggtctccaa	gcaaccacat	ggtcaagggc	atgaataatt	aaaagttggt	120
gggaactcac	aaagaccctc	agagctgaga	caccacaaac	agtgggagct	cacaaagacc	180
ctcagagctg	agacaccac	aacagtggga	gctcacaaag	accctcagag	ctgagacacc	240
cacaacagca	cctcgttcag	ctgccacatg	tgtgaataag	gatgcaatgt	ccagaagtgt	300
t						301

<210> 302
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 302						
aggtacacat	ttagcttggtg	gtaaatgact	cacaaaactg	attttaaaat	caagttaatg	60
tgaattttga	aaattactac	ttaatcctaa	ttcacataaa	caatggcatt	aaggtttgac	120
ttgagttggt	tcttagtatt	atttatggta	aataggctct	taccacttgc	aaataactgg	180
ccacatcatt	aatgactgac	ttcccagtaa	ggctctctaa	ggggtaaagta	ggaggatcca	240
caggatttga	gatgctaagg	ccccagagat	cgtttgatcc	aaccctctta	ttttcagagg	300
g						301

<210> 303
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 303						
aggtaccaac	tgtggaaata	ggtagaggat	cattttttct	ttccatatca	actaagttgt	60
atattgtttt	ttgacagttt	aacacatctt	cttctgtcag	agattctttc	acaatagcac	120
tggctaattg	aactaccgct	tgcatgttaa	aaatggtggt	ttgtgaaatg	atcataggcc	180

```

agtaacgggt atgtttttct aactgatctt ttgtcgttc caaagggacc tcaagacttc      240
catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac      300
c                                                                           301

```

```

<210> 304
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 304
acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt      60
tattagtttc agtttcagct taccactttt ttgtctgcaa catgcaraas agacagtgcc      120
cttttttagtg tatcatatca ggaatcatct cacattgggt tgtgccatta ctggtgcagt      180
gactttcagc cacttgggta aggtggagtt ggccatatgt ctccactgca aaattactga      240
ttttcctttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatataatct      300
c                                                                           301

```

```

<210> 305
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 305
gangtacagc gtggtcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag      60
cagggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggcg      120
taaaggagga gaaacagata caaaatctcc aactcagtat taaggatttc tcatgcctag      180
aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaacaaaa      240
ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag      300
a                                                                           301

```

```

<210> 306
<211> 8
<212> PRT
<213> Homo sapien

```

```

<400> 306
Val Leu Gly Trp Val Ala Glu Leu
1                               5

```

```

<210> 307
<211> 637
<212> DNA
<213> Homo sapien

```

```

<400> 307
acagggratg aagggaagg gagaggatga ggaagccccc ctggggattt ggtttggtcc      60
ttgtgatcag gtggtctatg gggcttatcc ctacaaagaa gaatccagaa ataggggcac      120
attgaggaat gatacttgag cccaaagagc attcaatcat tgttttattt gccttmtttt      180
cacaccattg gtgagggagg gattaccacc ctggggttat gaagatggtt gaacacccca      240

```

cacatagcac	cggagatatg	agatcaacag	tttcttagcc	atagagattc	acagcccaga	300
gcaggaggac	gcttgcacac	catgcaggat	gacatggggg	atgcgctcgg	gattggtgtg	360
aagaagcaag	gactgttaga	ggcaggcttt	atagtaacaa	gacggtgggg	caaactctga	420
tttccgtggg	ggaatgtcat	ggtcttgctt	tactaagttt	tgagactggc	aggtagtgaa	480
actcattagg	ctgagaacct	tgtggaatgc	acttgaccca	sctgatagag	gaagtagcca	540
ggtgggagcc	tttcccagtg	ggtgtgggac	atatctggca	agattttgtg	gcactcctgg	600
ttacagatac	tggggcagca	aataaaactg	aatcttg			637

<210> 308
 <211> 647
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n = A,T,C or G

<400> 308	
acgattttca	ttatcatgta aatcgggtca ctcaaggggc caaccacagc tgggagccac 60
tgtcagggg	aaggttcata tgggactttc tactgcccaa ggttctatac aggatataaa 120
ggngcctcac	agtatagatc tggtagcaaa gaagaagaaa caaacactga tctctttctg 180
ccaccctct	gacccttttg aactcctctg acccttttaga acaagcctac ctaatatctg 240
ctagagaaaa	gaccaacaac ggcctcaaag gatctcttac catgaaggtc tcagctaatt 300
cttggctaag	atgtgggttc cacattaggt tctgaatatg gggggaaggg tcaatttgct 360
catttttgt	gtggataaag tcaggatgcc cagggggccag agcagggggc tgcttgcttt 420
gggaacaatg	gctgagcata taaccatagg ttatggggaa caaaacaaca tcaaagtcac 480
tgtatcaatt	gccatgaaga cttgaggggac ctgaatctac cgattcatct taaggcagca 540
ggaccagttt	gagtggcaac aatgcagcag cagaatcaat ggaaacaaca gaatgattgc 600
aatgtccttt	tttttctcct gcttctgact tgataaaagg ggaccgt 647

<210> 309
 <211> 460
 <212> DNA
 <213> Homo sapien

<400> 309	
actttatagt	ttaggctgga cattggaaaa aaaaaaaagc cagaacaaca tgtgatagat 60
aatatgattg	gctgcacact tccagactga tgaatgatga acgtgatgga ctattgtatg 120
gagcacatct	tcagcaagag ggggaaatac tcatcatttt tggccagcag ttgtttgatc 180
accaaacatc	atgccagaat actcagcaaa ccttcttagc tcttgagaag tcaaagtcg 240
ggggaattta	ttcctggcaa ttttaattgg actccttatg tgagagcagc ggctaccag 300
ctgggggtgt	ggagcgaacc cgtcactagt ggacatgcag tggcagagct cctggtaacc 360
acctagagga	atacacaggc acatgtgtga tgccaagcgt gacacctgta gcactcaaatt 420
ttgtcttgtt	tttgtctttc ggtgtgtaag attcttaagt 460

<210> 310
 <211> 539
 <212> DNA
 <213> Homo sapien

<400> 310	
acgggactta	tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg 60
ctaaaggttt	taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt 120

taggaaagag	aaacacagaa	ggaagagaca	caataaaaagt	cattatgtat	tctgtgagaa	180
gtcagacagt	aagatttgtg	ggaaatgggt	tggtttgttg	tatggtatgt	attttagcaa	240
taatctttat	ggcagagaaa	gctaaaatcc	tttagcttgc	gtgaatgatc	acttgctgaa	300
ttcctcaagg	taggcatgat	gaaggagggt	ttagaggaga	cacagacaca	atgaactgac	360
ctagatagaa	agccttagta	tactcagcta	ggaatagtga	ttctgagggc	acactgtgac	420
atgattatgt	cattacatgt	atggtagtga	tggggatgat	aggaaggaag	aacttatggc	480
atattttcac	ccccacaaa	gtcagttaaa	tattgggaca	ctaaccatcc	aggtcaaga	539

<210> 311
 <211> 526
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

<400> 311	
caaatttgag	ccaatgacat
ttttgacgtt	ttctctaaac
catttacagc	atttaaaatg
attaaacatg	gaataaagat
tttttcacaa	gtgaagcatt
aaaatgggga	aactctgaag
tctctttaca	gggagctcct
acagcaagag	cttctcatct
agttctataa	actgtagtnt
agaattttac	aaatcaagaa
tactaaagag	gcattaatga
tggttcagcat	gaaatattag
ttgtccttaa	atataatcta
gtcataacct	ttttggggaa
atctttacctg	aagctacaga
cagaaatgag	tggctgagat
ccttttttagt	atctgtgtat
atccccaaag	cacagt
gggccatttc	
atattatcta	
agctaaataa	
ttgatatttg	
actatgggaa	
ctccataacc	
ctctgattgc	
caagtataaa	

<210> 312
 <211> 500
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(500)
 <223> n = A,T,C or G

<400> 312	
cctctctctc	cccaccccct
tcatttctga	aagcagttga
ccatttctct	ttcccttcca
gcattaagga	cattatgctt
gcttcttagg	aaaatatattt
tgcagatgtc	tagcagcttc
tgctaattgtg	gtttcctttg
ctgaacgtgt	ggtaaagatt
tagtcttaat	tatctattgg
gactctagag	aactggggtt
gccactttat	tccaaagtac
cctgccagtt	ttgctgactc
cttcgattct	gaagacaggc
tcttccaaaa	tcagtaggaa
tttccaaaa	atctaaactt
atggaacccc	atgggaaaaa
taaaaccanga	ttcttatttg
aatataggag	aatataggtt
gctgaaaagt	
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<210> 313
 <211> 718
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(718)
 <223> n = A,T,C or G

<400> 313

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ctgctgaaat	ggagataatt	aacatcacta	gaaacagcaa	gatgacaata	taatgtctaa	180
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aaaaggaagc	acagagatcc	ctgggagaaa	tgcccggccg	ccatcttggg	tcatcgatga	300
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ttccttaaa	gatggcagga	aaacagatcc	tgttgtggat	atttatttga	acgggattac	420
agatttgaaa	tgaagtcaca	aagtgagcat	taccaatgag	aggaaaacag	acgagaaaat	480
cttgatgggt	cacaagacat	gcaacaaa	aaatggaata	ctgtgatgac	acgagcagcc	540
aactggggag	gagataccac	ggggcagagg	tcaggattct	ggccctgctg	cctaactgtg	600
cgttatacca	atcatttcta	tttctaccct	caaacaagct	gtngaatatc	tgacttacgg	660
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<210> 314
 <211> 358
 <212> DNA
 <213> Homo sapien

<400> 314

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caacatgtgt	agatctcttg	tcttattctt	ttgtctataa	tactgtattg	tgtagtccaa	180
gctctcggtg	gtccagccac	tgtgaaacat	gctcccttta	gattaacctc	gtggacgctc	240
ttgttgatt	gctgaactgt	agtgcctgt	attttgcttc	tgtctgtgaa	ttctgttget	300
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<210> 315
 <211> 341
 <212> DNA
 <213> Homo sapien

<400> 315

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gacccccatt	ctgaagatgt	ctggaacctc	taccagcagg	atgatgatag	ccccaatgac	180
agtcaccagc	tccccgacca	gccggatatc	gtccttaggg	gtcatgtagg	cttcctgaag	240
tagcttctgc	tgtaagaggg	tgttgtccc	ggggctcgtg	cggttattgg	tcctgggctt	300
gagggggcgg	tagatgcagc	acatggtgaa	gcagatgatg	t		341

<210> 316
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 316

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tgtgggcctt	tctcgagttt	ctgattataa	acaccactgg	agcgatgtgt	tgactggact	120

cattcagggg gctctggttg caatattagt t 151

<210> 317
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 317
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 atcttcattt atctctggcc ttaaccctgg ctcttgaggc tgcggccagc agatcccagg 120
 ccagggtctt gttcttgcca cacctgcttg a 151

<210> 318
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 318
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 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120
 tgggggcggt ttatcaggca gtgataaaca t 151

<210> 319
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 319
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 taagattggg tttatgtgat tttagtgggt a 151

<210> 320
 <211> 150
 <212> DNA
 <213> Homo sapien

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<210> 321
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 321
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<210> 322
 <211> 151

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(151)
 <223> n = A,T,C or G

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 attgtgcagg gctcgcttca naattccagt t 151

<210> 323
 <211> 151
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(151)
 <223> n = A,T,C or G

<400> 323
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 nagactcant tactaccag tttgtgggtt twtgggagaa atgtaactgg acagttagct 120
 gttcaatyaa aaagacactt ancccatgtg g 151

<210> 324
 <211> 461
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(461)
 <223> n = A,T,C or G

<400> 324
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 agagttacta cgaatcccat cttggttcca gctatatcac tgacagcatg gtagaagact 180
 gcgaacctca cttctagact ttcacgggtg gacgaaacgg gttcagaaac tgccaggggc 240
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<210> 325
 <211> 400
 <212> DNA
 <213> Homo sapien

<400> 325

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agtaagagtg gtggcctatt tcagctgctt tgacaaaatg actggctcct gacttaacgt      180
tctataaatg aatgtgctga agcaaagtgc ccatgggtggc ggcgaagaag agaaagatgt      240
gttttgtttt ggactctctg tggtccttcc caatgctgtg ggtttccaac caggggaagg      300
gtcccttttg cattgccaag tgccataacc atgagcacta cgctaccatg gttctgcctc      360
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<210> 326
<211> 1215
<212> DNA
<213> Homo sapien

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<400> 326
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<210> 327
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<212> PRT
<213> Homo sapien

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<400> 327
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Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val
          20          25          30
Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly
          35          40          45
Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu
          50          55          60
Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala
          65          70          75          80
Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp
          85          90          95

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Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn
 100 105 110
 Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro
 115 120 125
 Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys
 130 135 140
 Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly
 145 150 155 160
 Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro
 165 170 175
 Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala
 180 185 190
 Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys
 195 200 205
 Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 210 215 220

<210> 328
 <211> 234
 <212> DNA
 <213> Homo sapien

<400> 328
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 atccgcagtg ggtgctgtca gccacacact gtttcagaa ctctacacc atcgggctgg 180
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<210> 329
 <211> 77
 <212> PRT
 <213> Homo sapien

<400> 329
 Leu Val Ser Gly Ser Cys Ser Gln Ile Ile Asn Gly Glu Asp Cys Ser
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 20 25 30
 Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Thr
 35 40 45
 His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu
 50 55 60
 Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala
 65 70 75

<210> 330
 <211> 70
 <212> DNA
 <213> Homo sapien

<400> 330
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 gctgcagcca 70

<210> 331
 <211> 22
 <212> PRT
 <213> Homo sapien

<400> 331
 Gln His Asn Gly Pro Ile Pro Ser Leu Thr Pro Pro Ser Gly Ser Leu
 1 5 10 15
 Val Ser Gly Ser Cys Ser
 20

<210> 332
 <211> 2507
 <212> DNA
 <213> Homo sapien

<400> 332

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<210> 333

<211> 3030

<212> DNA

<213> Homo sapien

<400> 333

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<210> 334
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 <212> DNA
 <213> Homo sapien

<400> 334						
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<211> 2984

<212> DNA

<213> Homo sapien

<400> 335

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<210> 336
<211> 147
<212> PRT
<213> Homo sapien

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<400> 336
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Leu Asp Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr
20     25     30
Pro Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln
35     40     45
Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala
50     55     60
Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln
65     70     75     80
Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln
85     90     95
Leu Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala
100    105    110
Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn
115    120    125
Ser Tyr Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro
130    135    140
Ala Phe Trp
145

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<210> 337
<211> 9
<212> PRT
<213> Homo sapien

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<400> 337
Ala Leu Thr Gly Phe Thr Phe Ser Ala
1      5

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<210> 338
<211> 9
<212> PRT
<213> Homo sapien

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<400> 338
Leu Leu Ala Asn Asp Leu Met Leu Ile
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<210> 339

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<211> 318
 <212> PRT
 <213> Homo sapien

<400> 339

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			20					25					30		
Cys	Thr	Ser	Thr	Val	Gln	Leu	Pro	Gly	Lys	Val	Val	Val	Val	Thr	Gly
		35					40					45			
Ala	Asn	Thr	Gly	Ile	Gly	Lys	Glu	Thr	Ala	Lys	Glu	Leu	Ala	Gln	Arg
	50					55					60				
Gly	Ala	Arg	Val	Tyr	Leu	Ala	Cys	Arg	Asp	Val	Glu	Lys	Gly	Glu	Leu
65					70					75					80
Val	Ala	Lys	Glu	Ile	Gln	Thr	Thr	Thr	Gly	Asn	Gln	Gln	Val	Leu	Val
				85					90					95	
Arg	Lys	Leu	Asp	Leu	Ser	Asp	Thr	Lys	Ser	Ile	Arg	Ala	Phe	Ala	Lys
			100					105					110		
Gly	Phe	Leu	Ala	Glu	Glu	Lys	His	Leu	His	Val	Leu	Ile	Asn	Asn	Ala
		115					120					125			
Gly	Val	Met	Met	Cys	Pro	Tyr	Ser	Lys	Thr	Ala	Asp	Gly	Phe	Glu	Met
	130					135					140				
His	Ile	Gly	Val	Asn	His	Leu	Gly	His	Phe	Leu	Leu	Thr	His	Leu	Leu
145					150					155					160
Leu	Glu	Lys	Leu	Lys	Glu	Ser	Ala	Pro	Ser	Arg	Ile	Val	Asn	Val	Ser
				165					170					175	
Ser	Leu	Ala	His	His	Leu	Gly	Arg	Ile	His	Phe	His	Asn	Leu	Gln	Gly
			180				185					190			
Glu	Lys	Phe	Tyr	Asn	Ala	Gly	Leu	Ala	Tyr	Cys	His	Ser	Lys	Leu	Ala
		195				200						205			
Asn	Ile	Leu	Phe	Thr	Gln	Glu	Leu	Ala	Arg	Arg	Leu	Lys	Gly	Ser	Gly
	210					215					220				
Val	Thr	Thr	Tyr	Ser	Val	His	Pro	Gly	Thr	Val	Gln	Ser	Glu	Leu	Val
225					230					235					240
Arg	His	Ser	Ser	Phe	Met	Arg	Trp	Met	Trp	Trp	Leu	Phe	Ser	Phe	Phe
				245					250					255	
Ile	Lys	Thr	Pro	Gln	Gln	Gly	Ala	Gln	Thr	Ser	Leu	His	Cys	Ala	Leu
			260					265					270		
Thr	Glu	Gly	Leu	Glu	Ile	Leu	Ser	Gly	Asn	His	Phe	Ser	Asp	Cys	His
		275					280					285			
Val	Ala	Trp	Val	Ser	Ala	Gln	Ala	Arg	Asn	Glu	Thr	Ile	Ala	Arg	Arg
	290					295					300				
Leu	Trp	Asp	Val	Ser	Cys	Asp	Leu	Leu	Gly	Leu	Pro	Ile	Asp		
305					310					315					

<210> 340
 <211> 483
 <212> DNA
 <213> Homo sapien

<400> 340

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ccttcaattt	tctctttggc	tgacgacgga	gtccgtgggtg	tcccgatgta	actgaccctt	300
gotccaaacg	tgacatcact	gatgctcttc	tgggggggtg	tgatggcccg	cttggtcacg	360
tgctcaatct	cgccattcga	ctcttgctcc	aaactgtatg	aagacacctg	actgcacgtt	420
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ctg						483

<210> 341
 <211> 344
 <212> DNA
 <213> Homo sapien

<400> 341						
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gctgccttac	aagtattaaa	tattttactt	ctttccataa	agagtagctc	aaaatatgca	180
attaatttaa	taattttctga	tgatgggttt	atctgcagta	atatgtatat	catctattag	240
aatttactta	atgaaaaact	gaagagaaca	aaatttgtaa	ccactagcac	ttaagtactc	300
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<210> 342
 <211> 592
 <212> DNA
 <213> Homo sapien

<400> 342						
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cctggcaggt	aaaccaatgc	caagagagtg	atggaaacca	ttggcaagac	tttgttgatg	180
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<210> 343
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 343						
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<210> 344
 <211> 536

<212> DNA

<213> Homo sapien

<400> 344

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<210> 345

<211> 251

<212> DNA

<213> Homo sapien

<400> 345

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<210> 346

<211> 282

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(282)

<223> n = A,T,C or G

<400> 346

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<210> 347

<211> 201

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(201)

<223> n = A,T,C or G

<400> 347

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<210> 348
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 348						
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gccctgcctc	c					251

<210> 349
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 349						
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aacccctgag	gatgccagag	ctatgggtcc	agaacatggg	gtggtattat	caacagagtt	120
cagaagggtc	tgaactctac	gtgttaccag	agaacataat	gcaattcatg	cattccactt	180
agcaattttg	taaaatacca	gaaacagacc	ccaagagtct	ttcaagatga	ggaaaattca	240
actcctggtt	t					251

<210> 350
 <211> 908
 <212> DNA
 <213> Homo sapien

<400> 350						
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cggctggaat	tgctctgggt	atgatgacag	agaaaatgat	ctcttcctct	gtgacaccaa	180
cacctgtaaa	tttgatgggg	aatgtttaag	aattggagac	actgtgactt	gcgtctgtca	240
gttcaagtgc	aacaatgact	atgtgcctgt	gtgtggctcc	aatggggaga	gctaccagaa	300
tgagtgttac	ctgcgacagg	ctgcatgcaa	acagcagagt	gagatacttg	tggtgtcaga	360
aggatcatgt	gccacagtcc	atgaaggctc	tgagaaaact	agtcaaaaagg	agacatccac	420
ctgtgatatt	tgccagtttg	gtgcagaatg	tgacgaagat	gccgaggatg	tctggtgtgt	480
gtgtaatat	gactgtttct	aaaccaactt	caatcccctc	tgcgcttctg	atgggaaatc	540
ttatgataat	gcatgccaaa	tcaaagaagc	atcgtgtcag	aaacaggaga	aaattgaagt	600
catgtctttg	ggtcgatgtc	aagataacac	aactacaact	actaagtctg	aagatgggca	660
ttatgcaaga	acagattatg	cagagaatgc	taacaaatta	gaagaaagtg	ccagagaaca	720
ccacatacct	tgtccggaac	attacaatgg	cttctgcatg	catgggaagt	gtgagcattc	780
tatcaatatg	caggagccat	cttgacaggtg	tgatgctggg	tatactggac	aacactgtga	840
aaaaaaggac	tacagtgttc	tatacgttgt	tcccggctct	gtacgatttc	agtatgtcct	900
aatcgacg						908

<210> 351
 <211> 472

<212> DNA

<213> Homo sapien

<400> 351

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cattaact	tg	at	ttttaa	aat	cagwttt	gyg	agtcatt	tac	cacaag	ctaa	atgtgt	180
tatgataa	aaa	acaacc	attg	tattcct	gtt	tttctaa	aca	gtccta	at	ctaac	actgt	240
atatatc	cctt	cgacat	caat	gaacttt	gtt	ttctttt	act	ccagta	ataa	agtagg	caca	300
gatctgt	cca	caacaaa	actt	gccctct	cat	gccttg	cctc	tcaccat	gct	ctgctc	cagg	360
tcagcccc	cct	tttggc	cctgt	ttgtttt	gtc	aaaaac	ctaa	tctgctt	cct	gctttt	cctt	420
gtaatat	ata	tttagg	gaag	atgttg	cctt	gcccac	acac	gaagcaa	agt	aa		472

<210> 352

<211> 251

<212> DNA

<213> Homo sapien

<400> 352

ctcaaag	cta	atctctc	ggg	aatcaa	acca	gaaaagg	gca	aggatc	ttag	gcatgg	tgg	60
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caggctg	cgt	tccgtc	cctta	cgatga	agac	cacgat	gcag	tttccaa	aca	ttgcc	actac	180
atacatg	gaa	aggaggg	ggga	agcca	accca	gaaatg	gggct	ttctcta	atc	ctggg	atacc	240
aataagc	aca	a										251

<210> 353

<211> 436

<212> DNA

<213> Homo sapien

<400> 353

ttttttt	tttt	ttttt	tacaa	caatgc	cagtc	atttatt	ttat	tgagt	atgtg			60
cacattat	gg	tattatt	act	atactg	atta	tatttat	cat	gtgact	tcta	attar	aaaaat	120
gtatccaaa		gcaaaac	agc	agata	tacaa	aattaa	agag	acaga	agata	gacatt	aaca	180
gataagg	caa	cttata	catt	gacaat	ccaa	atcca	ataca	tttaa	acatt	tggg	aaatga	240
gggggaca	aaa	tggaag	ccar	atcaa	attt	tgtaaa	acta	ttcagt	atgt	ttcc	cttgct	300
tcattgt	ctga	raagg	ctctc	ccttca	atgg	ggatga	caaaa	ctccaa	atgc	cacaca	aatg	360
ttaacaga	aat	actag	attca	cactgg	aacg	ggggta	aaaga	agaa	attatt	ttctata	aaaa	420
gggctc	ctaa	tgtagt										436

<210> 354

<211> 854

<212> DNA

<213> Homo sapien

<400> 354

cctttt	ctag	ttcacc	agtt	ttctg	caagg	atgct	ggtta	gggag	tgtct	gcagg	aggag	60
caagt	ctgaa	accaa	atcta	ggaa	acatag	gaaac	gagcc	aggc	acaggg	ctgg	tgggg	120
atcagg	gacc	accct	ttggg	ttgat	at	ttt		gctta	atctg	catc	ttttga	180
ctggc	agtag	aagct	gttct	ccagg	tacat	ttctc	tagct	catgt	acaaa	aacat	cctga	240
aggact	ttgt	caggt	gcctt	gctaaa	agcc	agatg	cgctc	ggcact	tcct	tggt	ctgagg	300
ttaatt	gcac	acctac	caggc	actgg	gctca	tgctt	tcaag	tattt	gtcc	tcact	tttagg	360
gtgagt	gaaa	gatcccc	att	atagg	agcac	ttggg	agaga	tcatata	aaaa	gctg	actctt	420
gagtac	atgc	agtaat	gggg	tagat	gtgtg	tggtg	tgtct	tcatt	cctgc	aagg	gtgctt	480

gttagggagt	gtttccagga	ggaacaagtc	tgaaaccaat	catgaaataa	atggtaggtg	540
tgaactggaa	aactaattca	aaagagagat	cgtgatatca	gtgtggttga	tacaccttgg	600
caatatggaa	ggctctaatt	tgcccatatt	tgaaataata	attcagcttt	ttgtaataca	660
aaataacaaa	ggattgagaa	tcatggtgtc	taatgtataa	aagacccagg	aaacataaat	720
atatcaactg	cataaatgta	aaatgcatgt	gacccaagaa	ggccccaag	tggcagacaa	780
cattgtaccc	attttccctt	ccaaaatgtg	agcggcgggc	ctgctgcttt	caaggctgtc	840
acacgggatg	tcag					854

<210> 355
 <211> 676
 <212> DNA
 <213> Homo sapien

<400> 355						
gaaattaagt	atgagctaaa	ttccctgtta	aaacctctag	gggtgacaga	tctcttcaac	60
cagggtcaaag	ctgatctttc	tggaatgtca	ccaaccaagg	gcctatatatt	atcaaaaagcc	120
atccacaagt	catacctgga	tgtcagcgaa	gagggcacgg	aggcagcagc	agccactggg	180
gacagcatcg	ctgtaaaaag	cctaccaatg	agagctcagt	tcaaggcgaa	ccacccttc	240
ctgttcttta	taaggcacac	tcataccaac	acgatcctat	tctgtggcaa	gcttgccctc	300
ccctaatacag	atgggggttga	gtaaggctca	gagttgcaga	tgaggtgcag	agacaatcct	360
gtgactttcc	cacggccaaa	aagctgttca	cacctcacgc	acctctgtgc	ctcagtttgc	420
tcattctgcaa	aataggtcta	ggatttcttc	caaccatttc	atgagttgtg	aagctaaggc	480
tttgtttaatc	atggaaaaag	gtagacttat	gcagaaagcc	tttctggctt	tcttatctgt	540
ggtgtctcat	ttgagtgtcg	tccagtgaca	tgatcaagtc	aatgagtaaa	attttaaggg	600
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gcttaagaa	aaccag					676

<210> 356
 <211> 574
 <212> DNA
 <213> Homo sapien

<400> 356						
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catgtggcac	ctgactggca	tcaaaccaaa	gttcgtaggc	caacaaagat	gggccactca	120
caagcttccc	atttgtagat	ctcagtgcct	atgagtatct	gacacctgtt	cctctcttca	180
gtctcttagg	gaggcttaaa	tctgtctcag	gtgtgctaag	agtgccagcc	caaggkggtc	240
aaaagtccac	aaaactgcag	tctttgtctg	gatagtaagc	caagcagtgc	ctggacagca	300
gagttctttt	cttgggcaac	agataaccag	acaggactct	aatcgtgctc	ttattcaaca	360
ttcttctgtc	tctgcctaga	ctggaataaa	aagccaatct	ctctcgtggc	acagggaagg	420
agatacaagc	tcgtttacat	gtgatagatc	taacaaaggc	atctaccgaa	gtctggtctg	480
gatagacggc	acaggagct	cttaggtcag	cgctgctggg	tggaggacat	tcctgagtcc	540
agctttgcag	cctttgtgca	acagtacttt	ccca			574

<210> 357
 <211> 393
 <212> DNA
 <213> Homo sapien

<400> 357						
tttttttttt	tttttttttt	tttttttttt	tacagaatat	aratgcttta	tcactgkact	60
taatatggkg	kcttggtcac	tatacttaaa	aatgcaccac	tcataaatat	ttaattcagc	120
aagccacaac	caaracttga	ttttatcaac	aaaaaccct	aaatataaac	ggsaaaaaag	180
atagatataa	ttattccagt	ttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240

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araarataag tggttatatgg aaagaagggc attcaagcac actaaaraaa cctgaggkaa 300
gcataatctg tacaaaatta aactgtcctt tttggcattt taacaaattt gcaacgktct 360
tttttttctt tttctgtttt tttttttttt tac 393

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<210> 358
<211> 630
<212> DNA
<213> Homo sapien

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<400> 358
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ttaatgttta taggaaaatg atgagtttat gacaaaggaa gtagatagtg ttttacaaga 120
gcatagagta gggaagctaa tccagcacag ggaggtcaca gagacatccc taaggaagtg 180
gagtttaaac tgagagaagc aagtgcctaa actgaaggat gtgttgaaga agaagggaga 240
gtagaacaat ttgggcagag ggaaccttat agaccctaag gtgggaaggt tcaaagaact 300
gaaagagagc tagaacagct ggagccgttc tccggtgtaa agaggagtca aagagataag 360
attaaagatg tgaagattaa gatcttggtg gcattcaggg attggcactt ctacaagaaa 420
tcaactgaagg gagtaatgtg acattacttt tcacttcagg atggccattc taactccagg 480
gggtagactg gactaggtaa gactggaggc aggtagacct cttctaaggc ctgcgatagt 540
gaaagacaaa aataagtggg gaaattcagg ggatagtga aatcagtagg acttaatgag 600
caagccagag gttcctccac aacaaccagt
630

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<210> 359
<211> 620
<212> DNA
<213> Homo sapien

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<400> 359
acagcattcc aaaatataca tctagagact aarrgtaaat gctctatagt gaagaagtaa 60
taattaaaaa atgctactaa tatagaaaat ttataatcag aaaaataaat attcagggag 120
ctcaccagaa gaataaagtg ctctgccagt tattaaagga ttactgctgg tgaattaaat 180
atggcattcc ccaagggaaa tagagagatt cttctggatt atgttcaata tttatttcac 240
aggattaact gttttaggaa cagatataaa gcttcgccac ggaagagatg gacaaagcac 300
aaagacaaca tgatacctta ggaagcaaca ctaccctttc aggcataaaa tttggagaaa 360
tgcaacatta tgcttcataa ataatatgta gaaagaaggt ctgatgaaaa tgacatcctt 420
aatgtaagat aactttataa gaattctggg tcaaataaaa ttctttgaag aaaacatcca 480
aatgtcattg acttatcaaa tactatcttg gcatataacc tatgaaggca aaactaaaca 540
aacaataaagc tcacaccaaa caaaaccatc aacttatttt gtattctata acatacgaga 600
ctgtaaagat gtgacagtgt
620

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<210> 360
<211> 431
<212> DNA
<213> Homo sapien

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<400> 360
aaaaaaaaaa agccagaaca acatgtgata gataatatga ttggctgcac acttccagac 60
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tactcatcat ttttggccag cagttgtttg atcaccaaac atcatgccag aatactcagc 180
aaaccttctt agctcttgag aagtcaaagt ccgggggaat ttattccttg caattttaat 240
tggactcctt atgtgagagc agcgggtacc cagctggggg ggtggagcga acccgtcact 300
agtggacatg cagtggcaga gctcctggta accacctaga ggaatacaca ggcacatgtg 360
tgatgccaaag cgtgacacct gtagcactca aatttgtctt gtttttgtct ttcggtgtgt 420
agattccttag t
431

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<210> 361
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 361
 acactgattt ccgatcaaaa gaatcatcat ctttaccttg acttttcagg gaattactga 60
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 ttgggtectc tggctctcttg ccaagtttcc cagccactcg agggagaaat atcgggaggt 180
 ttgacttctt ccggggcctt cccgagggct tcaccgtgag ccctgcggcc ctcagggctg 240
 caatcctgga ttcaatgtct gaaacctcgc tctctgcctg ctggacttct gaggccgtca 300
 ctgccactct gtcctccagc tctgacagct cctcatctgt ggtcctgttg t 351

<210> 362
 <211> 463
 <212> DNA
 <213> Homo sapien

<400> 362
 acttcatcag gccataatgg gtgcctcccg tgagaatcca agcacctttg gactgcgcga 60
 tgtagatgag ccggctgaag atcttgcgca tgcgcggctt cagggcgaag ttcttggcgc 120
 ccccggtcac agaaatgacc aggttgggtg ttttcagggt ccagtgtctg gtcagcagct 180
 cgtaaaggat ttccgcgtcc gtgtcgcagg acagacgtat atacttcctt ttcttcccca 240
 gtgtctcaaa ctgaatatcc ccaaaggcgt cggtaggaaa ttccttgggt tggttcttgt 300
 agttccattt ctcacttttg ttgatctggg tgccttccat gtgctggctc tgggcatagc 360
 cacacttgca cacattctcc ctgataagca cgatgggtgtg gacaggaagg aaggatttca 420
 ttgagcctgc ttatggaaac tggatttgtt agcttaaata gac 463

<210> 363
 <211> 653
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(653)
 <223> n = A,T,C or G

<400> 363
 acccccaggt ncctgnctgg catactgnga acgaccaacg acacacccaa gctcggcctc 60
 ctcttgngga ttctgggtga catcttcatg aatggcaacc gtgccagwga ggctgtcctc 120
 tgggaggcac tacgcaagat gggactgcgt cctgggggtga gacatcctct ccttggagat 180
 ctaacgaaac ttctcaccta tgagttgtaa agcagaaata cctgnactac agacgagtgc 240
 ccaacagcaa cccccgggaa gtatgagttc ctctrgggcc tccgttccta ccatgagasc 300
 tagcaagatg naagtgttga gantcattgc agaggttcag aaaagagacc cntcgtgact 360
 ggtctgcaca gttcatggag gctgcagatg aggcttggga tgctctggat gctgctgcag 420
 ctgaggccga agccccgggt gaagcaagaa cccgcattgg aattggagat gaggtgtgt 480
 ntgggccctg gagctgggat gacattgagt ttgagctgct gacctgggat gaggaaggag 540
 attttgaga tcnttgggtc agaattccat ttaccttctg ggccagatac caccagaatg 600
 cccgctccag attccctcag acctttgccg gtcccattat tggctstggt ggt 653

<210> 364
 <211> 401

<212> DNA

<213> Homo sapien

<400> 364

actagaggaa	agacgttaaa	ccactctact	accacttgtg	gaactctcaa	agggtaaatg	60
acaaagccaa	tgaatgactc	taaaaacaat	atttacattt	aatggtttgt	agacaataaa	120
aaaacaaggt	ggatagatct	agaattgtaa	cattttaaga	aaaccatagc	atttgacaga	180
tgagaaagct	caattataga	tgcaaagtta	taactaaact	actatagtag	taaagaaata	240
catttcacac	ccttcatata	aattcactat	cttggcttga	ggcactccat	aaaatgtatc	300
acgtgcatag	taaatcttta	tatttgctat	ggcgttgcac	tagaggactt	ggactgcaac	360
aagtggatgc	gcggaaaatg	aaatcttctt	caatagccca	g		401

<210> 365

<211> 356

<212> DNA

<213> Homo sapien

<400> 365

ccagtgtcat	atttgggctt	aaaatttcaa	gaagggcact	tcaaattggct	ttgcatttgc	60
atgtttcagt	gctagagcgt	aggaatagac	cctggcgctcc	actgtgagat	gttcttcagc	120
taccagagca	tcaagtctct	gcagcaggtc	attcttgggt	aaagaaatga	cttccacaaa	180
ctctccatcc	cctggctttg	gcttcggcct	tgcgttttcg	gcatcatctc	cgttaatggg	240
gactgtcacg	atgtgtatag	tacagtttga	caagcctggg	tccatacaga	ccgctggaga	300
acattcggca	atgtccctt	tgtagccagt	ttcttcttcg	agctcccgga	gagcag	356

<210> 366

<211> 1851

<212> DNA

<213> Homo sapien

<400> 366

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tcaattcctt	taagcctttg	tgactcttcc	tctgatgtca	gctttaagtc	ttgttctgga	180
ttgctgtttt	cagaagagat	ttttaacatc	tgtttttctt	tgtagtcaga	aagtaactgg	240
caaattacat	gatgatgact	agaaacagca	tactctctgg	ccgtctttcc	agatcttgag	300
aagatacatc	aacattttgc	tcaagtagag	ggctgactat	acttgctgat	ccacaacata	360
cagcaagtat	gagagcagtt	cttccatata	tatccagcgc	atttaaattc	gcttttttct	420
tgattaaaaa	tttcaccact	tgctgttttt	gctcatgtat	accaagtagc	agtgggtgtga	480
ggccatgctt	gtttttttgat	tcgatatcag	caccgtataa	gagcagtgct	ttggccatta	540
atztatcttc	attgtagaca	gcatagtgtg	gagtggtatt	tccatactca	tctggaatat	600
ttggatcagt	gccaatgttc	agcaacatta	acgcacattc	atcttctctg	cattgtacgg	660
cctttgtcag	agctgtcctc	tttttggtgt	caaggacatt	aagttgacat	cgtctgtcca	720
gcacgagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	gcagtcctct	780
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ggactttacc	ccaccaggca	gctctgtgga	gcttgtccag	atcttctcca	tggacgtggg	900
acctgggatc	catgaaggcg	ctgtcatcgt	agtctcccca	agcgaccacg	ttgctcttgc	960
cgctcccctg	cagcagggga	agcagtggca	gcaccacttg	cacctcttgc	tcccaagcgt	1020
cttcacagag	gagtcgttgt	ggtctccaga	agtgccacag	ttgctcttgc	cgctcccctt	1080
gtccatccag	ggaggaagaa	atgcaggaaa	tgaaagatgc	atgcacgatg	gtatactcct	1140
cagccatcaa	acttctggac	agcaggtcac	ttccagcaag	gtggagaaag	ctgtccaccc	1200
acagaggatg	agatccagaa	accacaatat	ccattcacaa	acaaacactt	ttcagccaga	1260
cacaggtact	gaaatcatgt	catctgcggc	aacatgggtg	aacctaccca	atcacacatc	1320
aagagatgaa	gacactgcag	tatatctgca	caacgtaata	ctcttcatcc	ataacaaaaa	1380

aatataat	tcctctgg	ccatatgg	gaactatg	ggaagaact	cccgaaga	1440
ccagtcgc	agaagccac	ctgaagct	gtcctcag	atcagcgcc	cggacaggar	1500
tgtgtttc	ccccagt	gcagcctc	gttatccc	agctgccg	gcacacggt	1560
gctcctga	aacacccc	ctcttcgg	ctaacacag	caagtcaat	aatgtgata	1620
tcacataaa	agaattaaa	gcaaagtc	ataagcat	caacagac	agaaaagg	1680
tttgacaaa	tccagcat	ttgtattt	tgttgcat	ctcagagg	atgcttcta	1740
cttttcccc	tttagtata	tgttggtg	gggctgtc	taggtgggt	ttattactt	1800
aaggtatgt	ccttctatg	ctgttttgc	gagggttta	attctcgtg	c	1851

<210> 367

<211> 668

<212> DNA

<213> Homo sapien

<400> 367

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ttcagtatt	tgaagataa	atttgtatg	ctatacctg	ttttttgatt	cgatatcagc	120
accrtataa	agcagtgtt	tggccattaa	tttatcttt	attttagaca	gcrtagtgga	180
gagtggatt	tcctactca	tctggaatat	ttggatcagt	gcatgttcc	agcaacatta	240
acgcacatt	atcttcctg	cattgtacgg	cctgtcagta	ttagacccaa	aaacaaatta	300
catatcttag	gaattcaaaa	taacattcca	cagctttcac	caactagtta	tattttaaagg	360
agaaaactca	tttttatgcc	atgtattgaa	atcaaacc	cctcatgctg	atatagttgg	420
ctactgcata	cctttatcag	agctgtcct	tttttgtgt	caaggacatt	aagttgacat	480
cgtctgtcca	gcaggagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	540
gcagtcctat	gagagtgaga	agacttttta	ggaaattgta	gtgcactagc	tacagccata	600
gcaatgatc	atgtaactgc	aaacactgaa	tagcctgcta	ttactctgcc	ttcaaaaaaa	660
aaaaaaa						668

<210> 368

<211> 1512

<212> DNA

<213> Homo sapien

<400> 368

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<210> 369
 <211> 1853
 <212> DNA
 <213> Homo sapien

<400> 369						
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<210> 370
 <211> 2184
 <212> DNA
 <213> Homo sapien

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<210> 371

<211> 1855

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1855)

<223> n = A,T,C or G

<400> 371

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<210> 372

<211> 1059

<212> DNA

<213> Homo sapien

<400> 372

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<210> 373

<211> 1155

<212> DNA

<213> Homo sapien

<400> 373

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<210> 374

<211> 2000

<212> DNA

<213> Homo sapien

<400> 374

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<210> 375

<211> 2040

<212> DNA

<213> Homo sapien

<400> 375

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agcaacgtgg	gcacttctgg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgccgccca	ctgcttcccc	tgctgcaggg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tgggtctgcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	gggcgcttgg	360
ggagactacg	atgacagtgc	cttcatggag	cccagggtacc	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctgggtgggt	aaagtcccca	gaaaggatct	catcgtcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcgttaa	tggtgctgga	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaagc	actgctctta	780
tatggtgctg	atatcgaaat	aaaaaacaag	catggcctca	caccactgtt	acttggtgta	840
catgagcaaa	aacagcaagt	cgtgaaatth	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgctctcata	cttgctgtat	gttgtggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaatth	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaca	agacttaaa	1140
ctgacatcag	aggaagagtc	acaaagggtc	aaaggcagtg	aaaatagcca	gccagagaaa	1200
atgtctcaag	aaccagaaat	aaataaggat	ggatgataag	agggtgaaga	agaaatgaag	1260
aagcatgaaa	gtaataatgt	gggattacta	gaaaacctga	ctaattggtg	cactgctggc	1320
aatggtgata	atggattaat	tcctcaaagg	aagagcagaa	cacctgaaaa	tcagcaatth	1380
cctgacaacg	aaagtgaaga	gtatcacaga	atttgcgaat	tagtttctga	ctacaaagaa	1440
aaacagatgc	caaaatactc	ttctgaaaac	agcaaccacg	aacaagactt	aaagctgaca	1500
tcagaggaag	agtcacaaa	gcttgagggc	agtgaatgat	gccagccaga	gaaaagatct	1560
caagaaccag	aaataaataa	ggatggtgat	agagagctag	aaaatthtat	ggctatcgaa	1620
gaaatgaaga	agcacggaag	tactcatgtc	ggattcccag	aaaacctgac	taatggtgcc	1680
actgctggca	atggtgatga	tggattaatth	cctccaagga	agagcagaac	acctgaaagc	1740
cagcaatthc	ctgacactga	gaatgaagag	tatcacagtg	acgaacaaaa	tgatactcag	1800
aagcaattht	gtgaagaaca	gaacactgga	atattacacg	atgagattct	gattcatgaa	1860
gaaaagcaga	tagaagtggg	tgaaaaaatg	aattctgagc	tttctcttag	ttgtaagaaa	1920
gaaaaagaca	tcttgcatga	aaatagtagc	ttgcgggaag	aaattgccat	gctaagactg	1980
gagctagaca	caatgaaaca	tcagagccag	ctaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2040

<210> 376

<211> 329

<212> PRT

<213> Homo sapien


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<400> 376
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Leu His Leu Ala Gly Ser Asp Leu Leu Ser Arg Ser Leu Met Ala Glu
          20          25          30
Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
          35          40          45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
          50          55          60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
65          70          75          80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
          85          90          95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
          100          105          110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
          115          120          125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
          130          135          140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
145          150          155          160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
          165          170          175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
          180          185          190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
          195          200          205
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
          210          215          220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
225          230          235          240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
          245          250          255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
          260          265          270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
          275          280          285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
          290          295          300
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
305          310          315          320
Ser Met Leu Phe Leu Val Ile Ile Met
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<210> 377

<211> 148

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(148)

<223> Xaa = Any Amino Acid

<400> 377

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Trp	Thr	Ser	Ser	Thr	Glu	Leu	Pro	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys
			20					25					30		
Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Xaa	Asp	Lys
		35					40					45			
Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu
		50				55					60				
Val	Val	Lys	Leu	Xaa	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp
65					70					75					80
Asn	Lys	Lys	Arg	Thr	Ala	Leu	Xaa	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp
				85					90					95	
Glu	Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro
			100					105					110		
Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Xaa	Tyr	Asn	Glu	Asp
		115					120					125			
Lys	Leu	Met	Ala	Lys	Ala	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	
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Lys	Asn	Lys	Val												
145															

<210> 378

<211> 1719

<212> PRT

<213> Homo sapien

<400> 378

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
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Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70					75					80
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180				185						190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr

		195					200					205				
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met	
	210					215					220					
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn	
225					230					235					240	
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys	
				245					250					255		
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly	
			260					265					270			
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val	
		275				280						285				
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr	
	290					295					300					
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile	
305					310					315					320	
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu	
				325					330					335		
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val	
			340					345					350			
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile	
		355				360						365				
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Asn	Val	Ser	Arg	Thr	Arg	Asn	Lys	
	370					375					380					
Pro	Arg	Thr	His	Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	
385					390					395					400	
Ser	Val	Lys	Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	
				405					410					415		
Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	
			420					425					430			
Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	
		435				440						445				
Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	
	450					455					460					
Lys	Ser	Asn	Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	
465					470					475					480	
Thr	Leu	Arg	Asn	Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	
				485					490					495		
Cys	Arg	Gly	Ser	Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	
			500					505					510			
Asp	Ser	Ala	Phe	Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	
		515					520					525				
Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	
	530					535					540					
Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	
545					550											

625					630					635				640	
Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys
				645					650					655	
Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys
			660					665					670		
Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala
		675					680					685			
Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly
	690					695					700				
Ser	Ala	Ser	Ile	Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser
705					710					715					720
Ser	Gln	Asp	Leu	Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser
			725						730					735	
His	His	His	Val	Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln
			740					745					750		
Met	Leu	Lys	Ile	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys
		755					760					765			
Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser
	770					775					780				
Gln	Pro	Glu	Lys	Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp
785					790					795					800
Arg	Glu	Val	Glu	Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly
				805					810					815	
Leu	Leu	Glu	Asn	Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn
			820					825					830		
Gly	Leu	Ile	Pro	Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe
		835					840					845			
Pro	Asp	Asn	Glu	Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser
	850					855					860				
Asp	Tyr	Lys	Glu	Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn
865					870					875					880
Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu
				885					890					895	
Glu	Gly	Ser	Glu	Asn	Gly	Gln	Pro	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile
			900					905					910		
Glu	Glu	Met	Lys	Lys	His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn
		915					920					925			
Leu	Thr	Asn	Gly	Ala	Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro
	930					935					940				
Pro	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu
945					950					955					960
Asn	Glu	Glu	Tyr	His	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe
				965					970					975	
Cys	Glu	Glu	Gln	Asn	Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His
			980				985					990			
Glu	Glu	Lys	Gln	Ile	Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser
		995					1000					1005			
Leu	Ser	Cys	Lys	Lys	Glu	Lys	Asp	Ile	Leu	His	Glu	Asn	Ser	Thr	Leu
	1010					1015					1020				
Arg	Glu	Glu	Ile	Ala	Met	Leu	Arg	Leu	Glu	Leu	Asp	Thr	Met	Lys	His
1025					1030					1035					1040
Gln	Ser	Gln	Leu	Pro	Arg	Thr	His	Met	Val	Val	Glu	Val	Asp	Ser	Met
				1045					1050					1055	
Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met

			1060					1065					1070			
Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	
			1075					1080					1085			
Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	
			1090					1095					1100			
Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	
1105					1110					1115					1120	
Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	
					1125				1130					1135		
Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn	Lys	Met	Gly	Lys	Trp	Cys	Cys	His	
			1140					1145					1150			
Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	
			1155					1160					1165			
Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe	Met	Glu	Pro	Arg	Tyr	His	Val	Arg	
1170					1175						1180					
Gly	Glu	Asp	Leu	Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	
1185					1190					1195					1200	
Pro	Arg	Lys	Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	
				1205					1210					1215		
Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	
			1220					1225					1230			
Asn	Ser	Glu	Val	Val	Lys	Leu	Leu	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	
			1235					1240					1245			
Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr	Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	
			1250			1255					1260					
Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	
1265					1270					1275					1280	
Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	
				1285				1290						1295		
Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	
			1300					1305					1310			
Ile	Glu	Ser	Lys	Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	
			1315				1320						1325			
His	Glu	Gln	Lys	Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	
			1330			1335					1340					
Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	
1345					1350					1355					1360	
Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile	Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	
				1365					1370					1375		
Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu	Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	
			1380					1385					1390			
Ala	Val	Ser	Ser	His	His	His	Val	Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	
			1395				1400						1405			
Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	
			1410				1415				1420					
Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	
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Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys	Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	
				1445					1450					1455		
Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu	Glu	Met	Lys	Lys	His	Glu	Ser		
			1460					1465					1470			
Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn	Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	
			1475				1480					1485				
Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro	Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	

1490	1495	1500
Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys		
1505	1510	1515
Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser		1520
	1525	1530
Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu		1535
	1540	1545
Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser		1550
	1555	1560
Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe		1565
	1570	1575
Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe		1580
1585	1590	1595
Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly		1600
	1605	1610
Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro		1615
	1620	1625
Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln		1630
	1635	1640
Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile		1645
	1650	1655
Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser		1660
1665	1670	1675
Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn		1680
	1685	1690
Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr		1695
	1700	1705
Met Lys His Gln Ser Gln Leu		1710
	1715	

<210> 379
 <211> 656
 <212> PRT
 <213> Homo sapien

<400> 379
Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
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Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
20 25 30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
35 40 45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
50 55 60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
65 70 75 80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
85 90 95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
100 105 110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
115 120 125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
130 135 140

Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
		195					200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260					265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275					280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
		355					360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu
	370					375					380				
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys
385					390					395					400
Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu
				405					410					415	
Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn
			420					425					430		
Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro
		435					440					445			
Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu
	450					455					460				
Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu
465					470					475					480
Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp
				485					490					495	
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu
			500					505					510		
Asn	Gly	Gln	Pro	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys
	515						520					525			
Lys	His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly
	530					535					540				
Ala	Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro	Pro	Arg	Lys	Ser
545					550					555					560
Arg	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr
				565					570					575	

His	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe	Cys	Glu	Glu	Gln
			580					585					590		
Asn	Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His	Glu	Glu	Lys	Gln
		595					600					605			
Ile	Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser	Leu	Ser	Cys	Lys
	610					615					620				
Lys	Glu	Lys	Asp	Ile	Leu	His	Glu	Asn	Ser	Thr	Leu	Arg	Glu	Glu	Ile
625					630					635					640
Ala	Met	Leu	Arg	Leu	Glu	Leu	Asp	Thr	Met	Lys	His	Gln	Ser	Gln	Leu
				645					650					655	

<210> 380

<211> 671

<212> PRT

<213> Homo sapien

<400> 380

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
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Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70					75					80
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
		195					200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
		210				215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260					265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275					280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr

290		295		300
Gly Arg Thr Ala Leu Ile	Leu Ala Val Cys Cys	Gly Ser Ala Ser Ile		
305		310		320
Val Ser Leu Leu Leu Glu	Gln Asn Ile Asp Val	Ser Ser Gln Asp Leu		
	325	330		335
Ser Gly Gln Thr Ala Arg	Glu Tyr Ala Val Ser	Ser Ser His His His	Val	
	340	345		350
Ile Cys Gln Leu Leu Ser	Asp Tyr Lys Glu Lys	Gln Met Leu Lys Ile		
	355	360		365
Ser Ser Glu Asn Ser Asn	Pro Glu Gln Asp Leu	Lys Leu Thr Ser Glu		
	370	375		380
Glu Glu Ser Gln Arg Phe	Lys Gly Ser Glu Asn	Ser Gln Pro Glu Lys		
385		390		400
Met Ser Gln Glu Pro Glu	Ile Asn Lys Asp Gly	Asp Arg Glu Val Glu		
	405	410		415
Glu Glu Met Lys Lys His	Glu Ser Asn Asn Val	Gly Leu Leu Glu Asn		
	420	425		430
Leu Thr Asn Gly Val Thr	Ala Gly Asn Gly Asp	Asn Gly Leu Ile Pro		
	435	440		445
Gln Arg Lys Ser Arg Thr	Pro Glu Asn Gln Gln	Phe Pro Asp Asn Glu		
	450	455		460
Ser Glu Glu Tyr His Arg	Ile Cys Glu Leu Val	Ser Asp Tyr Lys Glu		
465		470		480
Lys Gln Met Pro Lys Tyr	Ser Ser Glu Asn Ser	Asn Pro Glu Gln Asp		
	485	490		495
Leu Lys Leu Thr Ser Glu	Glu Glu Ser Gln Arg	Leu Glu Gly Ser Glu		
	500	505		510
Asn Gly Gln Pro Glu Lys	Arg Ser Gln Glu Pro	Glu Ile Asn Lys Asp		
	515	520		525
Gly Asp Arg Glu Leu Glu	Asn Phe Met Ala Ile	Glu Glu Met Lys Lys		
	530	535		540
His Gly Ser Thr His Val	Gly Phe Pro Glu Asn	Leu Thr Asn Gly Ala		
545		550		560
Thr Ala Gly Asn Gly Asp	Asp Gly Leu Ile Pro	Pro Arg Lys Ser Arg		
	565	570		575
Thr Pro Glu Ser Gln Gln	Phe Pro Asp Thr Glu	Asn Glu Glu Tyr His		
	580	585		590
Ser Asp Glu Gln Asn Asp	Thr Gln Lys Gln Phe	Cys Glu Glu Gln Asn		
	595	600		605
Thr Gly Ile Leu His Asp	Glu Ile Leu Ile His	Glu Glu Lys Gln Ile		
	610	615		620
Glu Val Val Glu Lys Met	Asn Ser Glu Leu Ser	Leu Ser Cys Lys Lys		
625		630		640
Glu Lys Asp Ile Leu His	Glu Asn Ser Thr Leu	Arg Glu Glu Ile Ala		
	645	650		655
Met Leu Arg Leu Glu Leu	Asp Thr Met Lys His	Gln Ser Gln Leu		
	660	665		670

<210> 381

<211> 251

<212> DNA

<213> Homo sapien

<400> 381

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ggtaacatgc	ttccctaag	ggtatccaa	cccaggggc	tcaccatgac	ctctgagggg	120
ccaatatccc	aggagaagca	ttggggagtt	gggggcaggt	gaaggacca	ggactcacac	180
atcctgggcc	tccaaggcag	aggagaggggt	cctcaagaag	gtcaggagga	aaatccgtaa	240
caagcagtca	g					251

<210> 382
 <211> 3279
 <212> DNA
 <213> Homo sapiens

<400> 382

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cactgggagg	ggacatcctg	cagaaggtag	gagttagcaa	acacccgctg	caggggaggg	180
gagagccctg	cggcacctgg	gggagcagag	ggagcagcac	ctgcccaggc	ctgggaggag	240
gggcctggag	ggcgtgagga	ggagcgaggg	ggctgcatgg	ctggagttag	ggatcagggg	300
cagggcgcgga	gatggcctca	cacaggggaag	agagggcccc	tcctgcaggg	cctcacctgg	360
gccacaggag	gacactgctt	ttcctctgag	gagtcaggag	ctgtggatgg	tgctggacag	420
aagaaggaca	gggcctggct	caggtgtcca	gaggctgtcg	ctggcttccc	tttgggatca	480
gactgcaggg	agggagggcg	gcagggttgt	ggggggagtg	acgatgagga	tgacctgggg	540
gtggctccag	gccttgcccc	tgctggggcc	ctcaccacgc	ctccctcaca	gtctcctggc	600
cctcagtctc	tccctccac	tccatcctcc	atctggcctc	agtgggtcat	tctgatcact	660
gaactgacca	taccagccc	tggccacggc	cctccatggc	tccccaatgc	cctggagagg	720
ggacatctag	tcagagagta	gtcctgaaga	ggtggcctct	gcgatgtgcc	tgtgggggca	780
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catttctgtc	tgttcctgag	agctgggaat	tgctctcagt	catctgcctg	cgcggttctg	1020
agagatggag	ttgcctaggc	agttattggg	gccaatcttt	ctcactgtgt	ctctcctcct	1080
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gcattaccgg	aagtggatca	aggacaccat	cgagccaac	ccctgagtgc	ccctgtccca	1260
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ctctgaagac	ttctcgctca	gtttcagtga	ggacacacac	aaagacgtgg	gtgaccatgt	1560
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acacacagca	aggttgacgc	tgtaaacata	gccacgctg	tcctgggggc	actgggaagc	1740
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tagggggaga	aactgaaagc	tgattaatta	caggaggttt	gttcaggtcc	cccaaaccac	1860
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ttattatggg	ttgttacatt	gataggatac	atactgaaat	cagcaaacaa	aacagatgta	1980
tagattagag	tgtggagaaa	acagaggaaa	acttgagttt	acgaagactg	gcaacttggc	2040
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gtagctgac	cagctgatag	aggaaactagc	caggtggggg	cctttccctt	tggatggggg	2160
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caaggatgta	tgataaatatg	tacaaagtaa	ttccaactga	ggaagctcac	ctgatcctta	2280
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tgaagtcttc	agacctgagg	ttccctagag	ttcaaacaga	tacagcatgg	tccagagtcc	2400
cagatgtaca	aaaacaggga	ttcatcacaa	atcccactct	tagcatgaag	ggtctggcat	2460
ggcccaaggc	cccaagtata	tcaaggcact	tgggcagaa	atgccaaagg	atcaaatgtc	2520

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atctcccagg agttattcaa gggtagagccc tttacttggg atgtacaggc tttgagcagt 2580
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aagccccccct ggggatttgg tttgggtcttg tgatcagggt gtctatgggg ctatccctac 2700
aaagaagaat ccagaaatag gggcacattg aggaatgata ctgagcccaa agagcattca 2760
atcattgttt tatttgcctt cttttcacac cattgggtgag ggaggggatta ccaccctggg 2820
gttatgaaga tgggtgaaca cccacacat agcaccggag atatgagatc aacagtittct 2880
tagccataga gattcacagc ccagagcagg aggacgtgc acaccatgca ggatgacatg 2940
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acaagacggg ggggcaaact ctgatttccg tgggggaatg tcatgggtctt gctttactaa 3060
gttttgagac tggcaggtag tgaaactcat taggctgaga accttgtgga atgcagctga 3120
cccagctgat agaggaagta gccagggtggg agcctttccc agtgggtgtg ggacatatct 3180
ggcaagattt tgtggcactc ctggttacag atactggggc agcaaataaa actgaatctt 3240
gttttcagac cttaaaaaaa aaaaaaaaaa aaaagtttt 3279

```

<210> 383

<211> 154

<212> PRT

<213> Homo sapiens

<400> 383

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Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
          5                      10                      15

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```

Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
          20                      25                      30

```

```

His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
          35                      40                      45

```

```

Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
          50                      55                      60

```

```

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
          65                      70                      75                      80

```

```

Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
          85                      90                      95

```

```

Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
          100                     105                     110

```

```

Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
          115                     120                     125

```

```

Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
          130                     135                     140

```

```

Ala Leu Glu Arg Gly His Leu Val Arg Glu
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```

<210> 384

<211> 557

<212> DNA

<213> Homo sapiens

<400> 384

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aaagatgtgt tttgttttgg actctctgtg gtcccttcca atgctgtggg tttccaacca 120
ggggaagggt cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggg 180
tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
acttaacctt gaaatggaaa gtcttgcaat cccatttgca ggatccgtct gtgcacatgc 300
ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360
tccccaaagac acatcctaaa aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc 420
ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480
tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttcc aaagtaaaaa 540
aaaaaaaaaa aaaaaaa 557

```

<210> 385

<211> 337

<212> DNA

<213> Homo sapiens

<400> 385

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ttcccagggtg atgtgcgagg gaagacacat ttactatcct tgatggggct gattccttta 60
gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgatca 180
aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240
tatcagacag gtccagtttc cgcaccaaca cctgctgggt ccctgtcgtg gtctggatct 300
ctttggccac caattcccc ttttccacat cccggca 337

```

<210> 386

<211> 300

<212> DNA

<213> Homo sapiens

<400> 386

```

gggcccgccta ccggcccagg cccgcctcgc cgagtcctcc tccccgggtg cctgcccgca 60
gccgcctcgcg ccagaggggt gggcgcgggg ctgcctctac cggctggcgg ctgtaactca 120
gcgaccttgg cccgaaggct ctagcaagga cccaccgacc ccagccgcgg cggcgcgggc 180
gcggaactttg cccggtgtgt gggcgggagc ggactgcgtg tccgcggacg ggcagcgaag 240
atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

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<210> 387

<211> 537

<212> DNA

<213> Homo sapiens

<400> 387

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gggcccagtc gggcaccaag ggactctttg caggcttctt tcctcggatc atcaaggctg 60
ccccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120
tgaaccagga ccggttctct ggcggtgaa aggggcaagg aggcaaggac cccgtctctc 180
ccacggatgg ggagagggca ggaggagacc cagccaagtg ccttttctct agcactgagg 240
gagggggctt gtttcccttc cctcccggcg acaagctcca gggcagggtc gtccctctgg 300
gcggcccagc acttctctcag acacaacttc ttctgtctgc tccagtcgtg gggatcatca 360
cttaccaccc ccccaagttc aagaccaaat cttccagctg ccccttcgtg gtttccctgt 420
gtttgtctga gctgggcatg tctccaggaa ccaagaagcc ctcagcctgg tgtagtctcc 480
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<210> 388
 <211> 520
 <212> DNA
 <213> Homo sapiens

<400> 388
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 gtttgaagat tgcctcttct acagcttctg agaatttgtt tatttcactt gccaaagtga 180
 ggacccccct cccaacatgc ccagccccac ccctaagcat ggtcccttgt caccaggcaa 240
 ccaggaaact gctacttgtg gacctcacca gagaccagga gggtttggtt agctcacagg 300
 acttccccca cccagaaga ttagcatccc atactagact cataactcaac tcaactaggc 360
 tcataactcaa ttgatgggta ttagacaatt ccatttcttt ctgggtatta taaacagaaa 420
 atctttcttc ttctcattac cagtaaaggc tcttggtatc tttctgttgg aatgatttct 480
 atgaacttgt cttattttta tgggtgggtt ttttctggt 520

<210> 389
 <211> 365
 <212> DNA
 <213> Homo sapiens

<400> 389
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 gagttaaggc tggatttcag atctgcctgg ttccagccgc agtgtgccct ctgctcccc 120
 aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180
 aagcctatgg ccagctgtct ttgtgttccc tctcaccgc ctgtcctcac agctgagact 240
 cccaggaaac cttcagacta ccttcctctg ccttcagcaa ggggcgttgc ccacattctc 300
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 gggag 365

<210> 390
 <211> 221
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(221)
 <223> n = A,T,C or G

<400> 390
 tgcctctcca tcttgcccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60
 tacacggnnt ctcatgggtg tggaacatct ctgcttgccg ttccaggaag gcctctggct 120
 gctctangag tctgannga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180
 tcaaagtcta gagggagtgg aggagttaag gctggatttc a 221

<210> 391
 <211> 325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(325)

<223> n = A,T,C or G

<400> 391

```
tggagcaggt cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60
ctctcgcgcc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120
tagccagggc actgctgcca acagccagtc cnnataccat catgtnaccc ggtgngctct 180
naanttngat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240
cactgcccag gaatcctaca gccagtaccc tgtcccagcg tctctaccta ccagtacgat 300
gagacctccg gctactacta tgacc 325
```

<210> 392

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(277)

<223> n = A,T,C or G

<400> 392

```
atattgttta actccttctt ttatatcttt taacattttc atggngaaaag gttcacatct 60
agtctcactt nggcnagn gn ctctacttg agtctcttcc ccggcctggn ccagtngnaa 120
antaccanga accgncatgn cttanaaach ncctgggttn tgggttnntc aatgactgca 180
tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcgg 240
ctgaggatac agcgccgcgt cctgtgttgc tggggaa 277
```

<210> 393

<211> 566

<212> DNA

<213> Homo sapiens

<400> 393

```
actagtccag tgtggtggaa ttcgcggccg cgtcgacgga caggtcagct gtctggctca 60
gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga ttaaattcag cctaaacggt 120
ttgccgggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180
gagaaggctc agtttgtcca tcagcattat catgatata ggactgggta cttgggtaag 240
gaggggtcta ggagatctgt cccttttaga gacaccttac ttataatgaa gtatttggga 300
gggtgggttt caaaagtaga aatgtcctgt attccgatga tcacccctga aacattttat 360
catttattaa tcatccctgc ctgtgtctat tattatattc atatctctac gctggaaaact 420
ttctgcctca atgtttactg tgcctttgtt tttgctagtt tgtgttgttg aaaaaaaaaa 480
cattctctgc ctgagtttta atttttgtcc aaagttattt taatctatac aattaaaagc 540
ttttgcctat caaaaaaaaa aaaaaa 566
```

<210> 394

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(384)

<223> n = A,T,C or G

<400> 394

```

gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
tgcaaatng gaccgggcca aggctggact gctggagcgt gtgaaggagc tacaggccna 120
gcaggaggac cgggctttta ggagttttta gctgagtgtc actgtagacc ccaaatacca 180
tcccaagatt atcgggagaa agggggcagt aattacccaa atccggttgg agcatgacgt 240
gaacatccag tttcctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
agggtacgaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt 384

```

<210> 395

<211> 399

<212> DNA

<213> Homo sapiens

<400> 395

```

ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgc 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagaggt ttcattcattg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttgaaagcc tgggcatctc ctactacag acctctgacc atgggacggg 360
gcagcctggg gagaccatcc aatcccaa ataatgcac 399

```

<210> 396

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(403)

<223> n = A,T,C or G

<400> 396

```

tggagttntc agtgcaaaca agccataaag cttcagtagc aaattactgt ctcacagaaa 60
gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240
taggaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
gttttagggga gggagtgagg gataaaagaa ggaaaaaaag aagagtgaga aaacctat 360
atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403

```

<210> 397

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(100)

<223> n = A,T,C or G

<400> 397

```
actagtncag tgtggtggaa ttgcgggccg cgtcgacctt naanccatct ctatagcaaa 60
tccatccccg ctcttggttg gtnacagaat gactgacaaa 100
```

```
<210> 398
<211> 278
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G
```

```
<400> 398
gcgccgcggt cgacagcagt tccgccagcg ctgcgccctg ggtggggatg tgctgcacgc 60
ccacctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120
tcactactgt gcctcgacca gtgaggagag ctggaccgac agcgagggtg actcatcatg 180
ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240
ctatggccgc ttcattangt ggctcaacaa ggagaagg 278
```

```
<210> 399
<211> 298
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G
```

```
<400> 399
acggagggtg aggaagcgnc cctgggatcg anaggatggg tcttgnccatt gaccnccctn 60
ggggtgccng catggagcgc atgggcgcgg gcctggggcca cggcatggat cgcgtgggct 120
ccgagatcga gcgcattggg ctggtcatgg accgcatggg ctccgtggag cgcattgggct 180
ccggcattga gcgcattggg ccgctgggccc tcgaccacat ggccctccanc attgancgca 240
tgggccagac catggagcgc attggctctg gcgtggagcn catgggtgcc ggcattggg 298
```

```
<210> 400
<211> 548
<212> DNA
<213> Homo sapiens
```

```
<400> 400
acatcaacta ctctctcatt ttaaggtatg gcagttccct tcatccccctt ttctgcctt 60
gtacatgtac atgtatgaaa ttctcttctc ttaccgaact ctctccacac atcacaagg 120
caaagaacca cagccttaga agggtaagag ggcaccctat gaaatgaaat ggtgatttct 180
tgagtctctt ttttccacgt ttaaggggcc atggcaggac ttagagttgc gagttaagac 240
tgcagagggc tagagaatta ttctatacag gctttgaggc caccatgtc acttatccc 300
tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tgggcagcta 360
gttgccccca taattctggg cctttgttgt ttgttttaat tacttgggca tcccaggaag 420
ctttccagtg atctcttacc atgggcccc ctcttggttg caagccctc ccaggccctg 480
tccccagccc ctctgcccc agccccccc cttgccttgg tgctcagccc tccattggg 540
agcaggtt 548
```


<210> 401
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(355)
 <223> n = A,T,C or G

```
<400> 401
actgtttcca tggtatgttt ctacacattg ctacctcagt gtccttgga acttagcttt 60
tgatgtctcc aagtagtcca ccttcattta actctttgaa actgtatcat ctttgccaag 120
taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgctgaag caaagtgcc atggtggcgg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgctgnngg tttccaacca ggggaagggt 300
cccttttgca ttgccaagtg ccataacctat gagcactact ctaccatggn tctgc 355
```

<210> 402
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(407)
 <223> n = A,T,C or G

```
<400> 402
atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag caggtgttgc actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaaggtggtc ctgacctttg ataaatctca 240
ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300
ttgtggagct tctcccctgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407
```

<210> 403
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

```
<400> 403
cagtatttat agcnaactg aaaagctagt agcaggcaag tctcaaatcc aggcacccaa 60
tcctaagcaa gagccatggc atggtgaaaa tgcaaaagga gagtctggcc aatctacaaa 120
tagagaacaa gacctactca gtcataaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240
tcttaacaac gaccgaaacc cattatttac ataaacctcc attcggtaac catgttgaaa 300
gga 303
```

<210> 404
 <211> 225
 <212> DNA
 <213> Homo sapiens

<400> 404
 aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60
 attgttaatg cactcattta cctttacatg gtgaaagtgc tctcttgatc ctacaaacag 120
 acattttcca ctcggtgttc catagttggt aagtgtatca gatgtgttg gcatgtgaat 180
 ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcatt 225

<210> 405
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(334)
 <223> n = A,T,C or G

<400> 405
 gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgagggttg tctggaggac 60
 ttcaatacac ctcccccat agtgaatcag cttccagggg gtccagtccc tctccttact 120
 tcatccccat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggg 180
 ttcccagtgct ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtg 240
 ctggtgcggg tgtgcctcca gcttctgctc agtgcttcat ggacagtgtc cagcccatgt 300
 cactctccac tctctcannng tggatcccac ccct 334

<210> 406
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(216)
 <223> n = A,T,C or G

<400> 406
 tttcatacct aatgaggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60
 gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120
 acnaaacaca aatttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180
 actgccaaag aatnttcaag aaggaggact gccant 216

<210> 407
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 407
 gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
 gtaaagtcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120

```

gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
ggaaaattgt catttgctca tgtgacagtt gatacttatt cacatttcac atgggcaacc 300
tgccagacag gagaaagtct tcccatgtta aaagacattt attatcttgt ttccctgtca 360
tgggagttcc agaaaaagtt aaaacagaca atgggccagg ttctgtagta aag          413

```

```

<210> 408
<211> 183
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(183)
<223> n = A,T,C or G

```

```

<400> 408
ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
tnccttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tatttactcc ttccctggcta cccatgtact 180
ntt                                     183

```

```

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 409
cccacgcatg ataagctctt tatttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttccagtg gccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
ggcctatgc                                     250

```

```

<210> 410
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 410
ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatattg aggatccgtc tgtgcacatg cctctgtaga gagcagcatt 120
cccagggacg ttggaaacag ttggcactgt aagggtgctt ctcccccaaga cacatcctaa 180
aagggtgtgt aatggtgaaa accgcttcct tctttattgc cccttcttat ttatgtgaac 240

```

nactggttgg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tcntgc 306

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 411
agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaagtgc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggngaggcaa a 261

<210> 412
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G

<400> 412
gttcaatgtt acctgacatt tctacaacac cccactcacc gatgtattcg ttgcccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgcccagg aaatactacg 120
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tcactgggta cattgaattc ccaaactacc cangcaatta cccagccaac 240
a 241

<210> 413
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

<400> 413
aactcttaca atccaagtga ctcactctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtag cttctctttg ttgtgaagga taatcaaact gaacaacaaa 120
aagtttactc tctctatttg gaacctaaaa actctcttct tcttgggtct gagggctcca 180
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t 231

<210> 414

<211> 234
 <212> DNA
 <213> Homo sapiens

<400> 414
 actgtccatg aagcactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60
 gatggagctg aaaacataac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120
 gtgagccaag gagggagggt cttcctttgg catgggatgg ggatgaagta aggagaggga 180
 ctggaccccc tggaagctga ttcactatgg ggggagggtg attgaagtcc tcca 234

<210> 415
 <211> 217
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(217)
 <223> n = A,T,C or G

<400> 415
 gcataggatt aagactgagt atcttttcta cattctttta acttttctaag gggcacttct 60
 caaaacacag accaggtagc aaatctccac tgctctaagg ntctcaccac cacttttctca 120
 cacctagcaa tagtagaatt cagtcctact tctgaggcca gaagaatggg tcagaaaaat 180
 antggattat aaaaaataac aattaagaaa aataatc 217

<210> 416
 <211> 213
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(213)
 <223> n = A,T,C or G

<400> 416
 atgcataatnt aaagganact gcctcgcttt tagaagacat ctggnetgct ctctgcatga 60
 ggcacagcag taaagctctt tgattcccag aatcaagaac tctccccttc agactattac 120
 cgaatgcaag gtggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180
 atattggaac agatggagtc tctactacaa aag 213

<210> 417
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

<400> 417
 nagtcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60

```

gtgggaaagg ctttactctg agttcaaate ttcaagccca tcagagagtc cactctggag 120
agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaagggct 240
tcantcaaag ttcgatatctt caaatccate ngaaggncca cagtatanan aaacctttta 300
agt 303

```

```

<210> 418
<211> 328
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 418
tttttggcgg tgggtggggca gggacggggac angagtctca ctctgttgcc caggctggag 60
tgcacaggca tgatctcggc tcactacaac ccctgcctcc catgtccaag cgattcttgt 120
gcctcagcct tccctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
gtatttttag tagagacagg gtttcaccat gttggccagg ctggtctcaa actcctnacc 240
tcagnggtca ggctgggtct aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
aaagtgctan gattacaggc cgtgagcc 328

```

```

<210> 419
<211> 389
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(389)
<223> n = A,T,C or G

```

```

<400> 419
cctcctcaag acggcctgtg gtcgcgcctcc cggcaaccaa gaagcctgca gtgccatatt 60
accctgagc catggactgg agcctgaaag gcagcgtaca ccctgctcct gatcttgctg 120
cttggtttcct ctctgtggct ccattcatag cacagtgtgt gcactgaggc ttgtgcaggc 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggg gtgccaggca 240
ccggtttctcc agccaccaac ctcaactcgt cccgcaaatt gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgctttt ctgaagtctt ctgctctatc agccatcacg 360
tggcagccac tcnngctgtg tcgacgcgg 389

```

```

<210> 420
<211> 408
<212> DNA
<213> Homo sapiens

```

```

<400> 420
gttctctcta actcctgcc aaaaacagct tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttggtttt gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggg gtttcggcat ggagaccgaa 180
gtcccattga cacttttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300

```

```

gatatagaaa attcttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagcccg 408

```

```

<210> 421
<211> 352
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

```

```

<400> 421
gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacaggtct tttttgggtc cttcttctcc accacnata acttgacgtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacaggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcattgc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttcct gg 352

```

```

<210> 422
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<400> 422
atgccaccat gctggcaatg cagcggggcg tcgaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gcatagcaa ggtgccggcg atcgcgcgcg cgtcaatcct ggccaaggtc agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcgggcgg cataaaggct 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337

```

```

<210> 423
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

```

```

<400> 423
gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggcctggcct gggagccctg tgccctacta aagcncatta gattatccat 120
tcaactgacag aacaggtctt ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacaggtgt anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta 310

```

```

<210> 424
<211> 370

```

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(370)
 <223> n = A,T,C or G

<400> 424
 gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
 ggagaatgag gcoctggcctg ggagccctgt gcoctactaga agcacattag attatccatt 120
 cactgacaga acagggtcttt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180
 ccttcttgaa gattcttttg cagttgtctt tgtcataaacc cacagggtga gaaacatcct 240
 gggtgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300
 cacgaagggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360
 tccgtcgacg 370

<210> 425
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(216)
 <223> n = A,T,C or G

<400> 425
 aattgctatn ntttttttg ccactcaaaa taattaccaa aaaaaaaaaa tnttaaata 60
 taacaacnca acatcaagg n aaananaaca ggaatggntg actntgcata aatnggccga 120
 anattatcca ttatnttaag gggtgacttc aggntacagc acacagacaa acatgcccag 180
 gaggnntnca ggaccgctcg atgtntntg agggagg 216

<210> 426
 <211> 596
 <212> DNA
 <213> Homo sapiens

<400> 426
 cttccagtga ggataaccct gttgccccgg gccgaggttc tccattaggc tctgattgat 60
 tggcagtcag tgatggaagg gtgttctgat cattccgact gccccaaggg tcgctggcca 120
 gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatgggtga 180
 gctgtccttg tattttgatt aacctaatgg ccttcccagc acgactcgga ttcagctgga 240
 gacatcacgg caacttttaa tgaaatgatt tgaagggcca ttaagaggca cttcccgtta 300
 ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
 aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420
 ggtggatggc cttttcagct ttaacccaat ttgcaactgc ttggaagtgt agccaggaga 480
 atacactcat atactcgtgg gcttagaggc cacagcagat gtcattgggt tactgcctga 540
 gtcccgtctg tcccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

<210> 427
 <211> 107
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(107)

<223> n = A,T,C or G

<400> 427

gaagaattca agttaggttt attcaaaggg cttacngaga atcctanacc caggncaccag 60
cccgggagca gccttanaga gctcctgttt gactgcccg ctcagn 107

<210> 428

<211> 38

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(38)

<223> n = A,T,C or G

<400> 428

gaacttcna anaangactt tattcactat ttacatt 38

<210> 429

<211> 544

<212> DNA

<213> Homo sapiens

<400> 429

ctttgctgga cggaataaaa gtggagcga gcatgacctc ctgatgaggg cgctgcattt 60
attgaagagc ggctgcagcc ctgoggttca gattaaaatc cgagaattgt atagacgccg 120
atatccacga actcttgaag gactttctga tttatccaca atcaaatacat cggttttcag 180
tttggtatggg ggctcatcac ctgtagaacc tgacttgccc gtggctggaa tccactcgtt 240
gccttccact tcagttacac ctcaactcacc atcctctcct gttgggtctg tgctgcttca 300
agatactaag cccacatttg agatgcagca gccatctccc ccaattcctc ctgtccatcc 360
tgatgtgcag ttaaaaaatc tgccctttta tgatgtcctt gatgttctca tcaagccac 420
gagttttagtt caaagcagta ttcagcgatt tcaagagaag ttttttattt ttgctttgac 480
acctcaacaa gttagagaga tatgcatatc cagggatttt ttgccaggtg gtaggagaga 540
ttat 544

<210> 430

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(507)

<223> n = A,T,C or G

<400> 430

cttatcncaa tggggctccc aaacttggct gtgcagtggg aactccgggg gaattttgaa 60
gaacactgac acccatcttc caccocgaca ctctgattta attgggctgc agtgagaaca 120
gagcatcaat ttaaaaagct gcccagaatg ttntcctggg cagcgttgtg atctttgccn 180

```

ccttcgtgac tttatgcaat gcatcatgct atttcataacc taatgagggg gttccaggag 240
attcaaccag gatgttttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
caagaaggag gactgcaagt atatcggtgt ggagaagaag gacccaaaaa agacctgttc 360
tgtcagtga tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
cattctcttc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480
ttttgagcaa aaaaaaaaaa aaaaaaaa 507

```

```

<210> 431
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

```

```

<400> 431
gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcatc 120
tatcatggct aaatgtgaga ttagcacagc tgtattattt gtacattgca aacacctaga 180
aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtccctgggtt ttccaacaga 240
catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgttgtagg taaaatgtac aacttctgga tctatgcaga cattgaaggt 360
gcaatgagtc tggcttttac tctgctgttt ct 392

```

```

<210> 432
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(387)
<223> n = A,T,C or G

```

```

<400> 432
ggtatcanta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
aaatgcaagg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120
ngtagtccaa gctctcgga gtccagccac tgnгааacat gctcccttta gattaacctc 180
gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240
attctgttgc ttctggggca tttccttgng atgcagagga ccaccacaca gatgacagca 300
atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgtac aggaccggga 360
acaacgtata gaacactgga gtccttt 387

```

```

<210> 433
<211> 281
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

```

<400> 433

```

ttcaactagc anagaanact gcttcagggg gtgtaaaatg aaaggcttcc acgcagttat 60
ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
caggcnctat ttgggttggc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180
atcgccgtgg ctattcctcn ttgntattac accagnaggg ntctctgtnt gccactggt 240
tnnaaaaccg ntatacaata atgatagaat aggacacaca t 281

```

<210> 434

<211> 484

<212> DNA

<213> Homo sapiens

<400> 434

```

ttttaaaata agcatttagt gctcagtcct tactgagtac tctttctctc cctcctctctg 60
aatttaattc ttccaacttg caatttgcaa ggattacaca ttccactgtg atgtatattg 120
tggtgcaaaa aaaaaaaagt gtctttgttt aaaattactt gggttggtgaa tccatcttgc 180
tttttcccc ttggaactag tcattaaccc atctctgaac tggtagaaaa acatctgaag 240
agctagtcta tcagcatctg acaggtgaat tggatggttc tcagaacccat ttcaccaga 300
cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca taacaaaccc 360
tgctccaatc tgtcacataa aagtctgtga cttgaagttt agtcagcacc cccaccaaac 420
tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtc 480
ttta 484

```

<210> 435

<211> 424

<212> DNA

<213> Homo sapiens

<400> 435

```

gcgccgctca gagcaggtea cttttotgoot tccacgtcct ccttcaagga agccccatgt 60
gggtagcttt caatatcgca ggttcttact cctctgcctc tataagctca aaccaccaa 120
cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttcagcgcag 180
atgggcctgt ggggaggggg caagatagat gagggggagc ggcatgggtc ggggtgaccc 240
cttgagagga ggaaaaaggc cacaagaggg gctgccaccg ccactaacgg agatggccct 300
ggtagagacc tttgggggtc tggaaacctc ggactcccca tgctctaact cccacactct 360
gctatcagaa acttaacctt gaggattttc tctgtttttc actcgcaata aattcagagc 420
aaac 424

```

<210> 436

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(667)

<223> n = A,T,C or G

<400> 436

```

accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60
tcctggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataagggtgc 120
agcctcttct ggaattcctc tgatttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240

```

```

atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaagtc cgggtcaacgt ctgtgcttcg aatataaacc 360
tgttcatgtt tataggactc attcaagaat tttctatata tctttcttat atactctcca 420
agttcataat gctgctccat gcccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tggggtcagt gggaaaggtg tcaatgggac ttcggtctcc atgccgaaac 540
accaaagtca caaacttcaa ctcttggct agtacacttc ggtctagcca gaaaaaaagc 600
agaaacaaga agccaaggct aaggcttgct gccctgccag gaggaggggt gcagctctca 660
tgttgag 667

```

<210> 437

<211> 693

<212> DNA

<213> Homo sapiens

<400> 437

```

ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
acacagccag gtaaggaaaag ctggattggc acactaggac tctaccatac cgggttttgt 120
taaaagctcag gttaggaggc tgataagctt ggaaggaaact tcagacagct ttttcagatc 180
ataaaagata attcttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
agggtactcct ctattttcac ccctcttgct tctactctct ggcagtcaga cctgtgggag 300
gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
cattttctcca ggttacccta ggtgtcacta ttggggggac agccagcatc tttagctttc 420
atlttgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
acacctaact gctgttgctc ctgaggtggg gaaagacaga tatagagctt acagtattta 540
tcctattttct aggcactgag ggctgtgggg taccttgtgg tgccaaaaca gatcctgttt 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660
ctgcatcatg tgctctcttg gctgaaaatg acc 693

```

<210> 438

<211> 360

<212> DNA

<213> Homo sapiens

<400> 438

```

ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta tttcatacct aatgaggagg ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaaag acaactgccca aagaatcttc aagaaggagg 180
actgcaagta tatctggtgg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

```

<210> 439

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(431)

<223> n = A,T,C or G

<400> 439

```

gttcctnnta actcctgcc aaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120

```

```

gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag t                                     431

```

```

<210> 440
<211> 523
<212> DNA
<213> Homo sapiens

```

```

<400> 440
agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaattgc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actggaaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaattaa aacctctttg tgtcccttgg tcctggaaaca tttatgttcc ttttaaagaa 420
acaaaaatca aactttacag aaagatttga tgtatgtaat acatatagca gctcttgaag 480
tatatatatc atagcaaata agtcacttga tgagaacaag cta                                     523

```

```

<210> 441
<211> 430
<212> DNA
<213> Homo sapiens

```

```

<400> 441
gttcctccta actcctgcc aaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcett agccttgget tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag                                     430

```

```

<210> 442
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<400> 442
ctaaggaatt agtagtggtc ccatcacttg tttggagtgt gctatttctaa aagattttga 60
tttcctggaa tgacaattat attttaactt tgggtggggga aagagttata ggaccacagt 120
cttcacttct gatacttgta aattaatctt ttattgcact tgttttgacc attaagctat 180
atgttttagaa atggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatatt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc                                     362

```

```

<210> 443
<211> 624

```

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(624)
 <223> n = A,T,C or G

<400> 443
 tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
 ttgaaagaat taaattcaga ggaggggaga gaaagagtag tcagtaggga ctgagcacta 120
 aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180
 tgctggctag tactccgggc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240
 cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaacttgg cttcctgttt 300
 tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaataaac 360
 taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtac 420
 atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgcta 480
 agtacagaga gagggcactt aaaccaacta agggcctgga ggggaagggtt cctggaaaga 540
 ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggcctaat tatttaaaact 600
 ttgtccctat ctgctaaaca gatc 624

<210> 444
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(425)
 <223> n = A,T,C or G

<400> 444
 gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
 gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
 ttcatgtcta tagcataaca caaaatttgc ataagtgggtg gtcagcaaatt ccttgaatgc 180
 tgcttaattg gagaggttgg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240
 gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
 cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacctgt gaagagccaa 360
 ggaggcacca gggcataagt gagtagactt atggtcgacg cggccgcgaa tttagtagta 420
 gtaga 425

<210> 445
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n = A,T,C or G

<400> 445
 catgtttatg nttttggatt actttgggca cctagtgttt ctaaatacgtc tatcattctt 60
 ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120

```

tgaaattctt  tgcattgtggc  agattattgg  atgtagtctt  ctttaactag  catataaatc  180
tgggtgtgtt  cagataaatg  aacagcaaaa  tgtggtggaa  ttaccatttg  gaacattgtg  240
aatgaaaaat  tgtgtctcta  gattatgtaa  caaataacta  tttcctaacc  attgatcttt  300
ggatttttat  aatcctactc  acaaagtact  aggccttctc  tcttgtattt  tgaagcagtg  360
tgggtgctgg  attgataaaa  aaaaaaaaaa  tcgacgcggc  cgcaatttta  gtag         414

```

```

<210> 446
<211> 631
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G

```

```

<400> 446
acaaattaga  anaaagtggc  agagaacacc  acataccttg  tccggaacat  tacaatggct  60
tctgcatgca  tgggaagtgt  gagcattcta  tcaatatgca  ggagccatct  tgcaggtgtg  120
atgctggtta  tactggacaa  cactgtgaaa  aaaaggacta  cagtgttcta  tacgttgctt  180
ccggtcctgt  acgatttcag  tatgtcttaa  tcgcagctgt  gattggaaca  attcagattg  240
ctgtcatctg  tgtggtggtc  ctctgcatca  caagggccaa  actttaggta  atagcattgg  300
actgagattt  gtaaaacttc  caaccttcca  ggaaatgccc  cagaagcaac  agaattcaca  360
gacagaagca  aaatacaggg  cactacagtt  cagacaatac  aacaagagcg  tccacgaggt  420
taatctaaa  ggagcatgtt  tcacagtggc  tggactaccg  agagcttgga  ctacacaata  480
cagtattata  gacaaaagaa  taagacaaga  gatctacaca  tgttgccttg  catttggtgt  540
aatctacacc  aatgaaaaca  tgtactacag  ctatatttga  ttatgtatgg  atatatttga  600
aatagtatac  attgtcttga  tgttttttct  g              631

```

```

<210> 447
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G

```

```

<400> 447
ccttgggaaa  antntcacia  tataaagggt  cgtagacttt  actccaaatt  ccaaaaaggt  60
cctggccatg  taatcctgaa  agttttccca  aggtagctat  aaaatcctta  taaggggtga  120
gcctcttctg  gaattcctct  gatttcaaag  tctcactctc  aagttcttga  aaacgagggc  180
agttcctgaa  aggcaggtat  agcaactgat  cttcagaaa  aggaactgtg  tgcaccggga  240
tgggctgcca  gagtaggata  ggattccaga  tgctgacacc  ttctggggga  aacagggctg  300
ccaggtttgt  catagcactc  atcaaagtcc  ggtcaacgtc  tgtgcttcga  atataaacct  360
gttcatgttt  ataggactca  ttcaagaatt  ttctatatct  ctttcttata  tactctccaa  420
gttcataatg  ctgctccatg  cccagctggg  tgagttggcc  aaatccttgt  ggccatgagg  480
attcctttat  ggggtcagtg  ggaaagggtg  caatgggact  tcggtctcca  tgccgaaaca  540
ccaaagtcac  aaacttcaac  tccttggtca  gtacacttcg  gtcta              585

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<210> 448
<211> 93
<212> DNA

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<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(93)

<223> n = A,T,C or G

<400> 448

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ggctccctag tgccctggag agganggggc tag 93
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<210> 449

<211> 706

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(706)

<223> n = A,T,C or G

<400> 449

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ttctgancac cgaactgacc atgccagccc tgccgatggg cctccatggc tccctagtgc 120
cctggagagg aggtgtctag tcagagagta gtccctggaag gtggcctctg ngaggagcca 180
cggggacagc atcctgcaga tggtcggggc cgtcccatc gccattcagg ctgcgcaact 240
gttgggaagg gcgatcggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300
gtgctgcaag gcgattaagt tgggtaacgc caggggtttc ccagtcncga cgttgtaaaa 360
cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcatgcacg 420
cgtacgtaag cttggatcct ctagagcggc cgctactac tactaaattc gcggccgcgt 480
cgacgtggga tccnactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncacca 660
gcatggtatga cagagtgaaa ctccatctta aaaaaaaaaa aaaaaa 706
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<210> 450

<211> 493

<212> DNA

<213> Homo sapiens

<400> 450

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acagttttta aaggtaaaaa aacataaaaa gaaatatacct atagtggaaa taagagagtc 120
aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180
agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
caagtccagg agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300
agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360
tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420
tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggg cgacgcggcc 480
gcgaatttag tag 493
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<210> 451

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 451

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ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat taagttgggt 120
aacgccaggg ttttcccagt cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180
tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240
gcggcgcgct actactacta aattcgcggc cgcgtcgacg tgggatccnc actgagagag 300
tggagagtga catgtgctgg acnctgtcca tgaagcactg agcagaagct ggaggcacia 360
cgcncagac actcacagct actcaggagg ctgagaacag gttgaacctg ggaggtggag 420
gttgcaatga gctgagatca ggcnctgcn cccagcatg gatgacagag tgaaactcca 480
tcttaaaaaa aaaaaaaaaa a 501

```

<210> 452

<211> 51

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(51)

<223> n = A,T,C or G

<400> 452

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<210> 453

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(317)

<223> n = A,T,C or G

<400> 453

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acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatgggtc tcagaaccat 120
ttcacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180
taacaaaccc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240
cccaccaaac tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300
taccatgtc tttatta 317

```

<210> 454

<211> 231

<212> DNA

<213> Homo sapiens

<400> 454

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ttcgagggtac aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
taagccacgc cagctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
ccttcctttt tcagtgttcc aaagctcttc acaatttcat gaacaacagc t 231

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<210> 455

<211> 231

<212> DNA

<213> Homo sapiens

<400> 455

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taccaaagag ggcataataa tcagtctcac agtaggggttc accatcctcc aagtgaaaaa 60
cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
gtttcaacgc attgatgact tctccaagga tcttcctttg gcacgcacca cattcagggg 180
caaagaattt ctcatagcac agctcacaat acagggtctc tttctcctct a 231

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<210> 456

<211> 231

<212> DNA

<213> Homo sapiens

<400> 456

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ttggcaggta cccttataaa gaagacacca taccttatgc gttattaggt ggaataatca 60
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tgcactcaaa ttcctttatc aggaataact acatagccac tatttataaa gccattggaa 180
cctttttatt tgggtgcagct gctagtcagt cctgactga cattgccaag t 231

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<210> 457

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(231)

<223> n = A,T,C or G

<400> 457

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cgagggtaccc aggggtctga aaatctctnn tttantagtc gatagcaaaa ttgttcatca 60
gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catacagttt 120
tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttctctt gaggtgtcgc tggcttttgt g 231

```

<210> 458

<211> 231

<212> DNA

<213> Homo sapiens

<400> 458

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aggtctgggt ccccccactt ccactccctt ctactctctc taggactggg ctgggcccaag 60
agaagagggg tgggttagga agccgttgag acctgaagcc ccacctcta ccttccttca 120
acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttcaa 180
ggtcctgggt taggcatttt ggggggcccag accccaggag aagaagattc t 231

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<210> 459
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 459
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 gccctgcact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180
 actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231

<210> 460
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 460
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 cccacctccc cacacgcaca cggccagcct ggagcccaca gaagggtcct cctgcagcca 180
 gtggagcttg gtccagcctc cagtcacccc ctaccaggct taaggataga a 231

<210> 461
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 461
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 gcgtgtgtctc cagaagagtg tgtgcatgcc agaggggaaa caggcgcctg tgtgtcctgg 120
 gtgggggttca gtgaggagtg ggaaatttgt tcagcagaac caagccgttg ggtgaataag 180
 agggggattc catggcactg atagagccct atagtttcag agctgggaat t 231

<210> 462
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 462
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 ggggtcatgca agtataaaaa ttaaaaaaaaa aagacttcat gcccaatctc atatgatgtg 120
 gaagaactgt tagagagacc aacagggtag tgggttagag atttccagag tcttacattt 180
 tctagaggag gtatttaatt tcttctcact catccagtgt tgtatttagg a 231

<210> 463
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 463
 tactccagcc tgggtgacaga gcgagaccct atcaccgccc cccacccccc caaaaaaaaa 60
 actgagtaga caggtgtcct cttggcatgg taagtcttaa gtcccctccc agatctgtga 120
 catttgacag gtgtcttttc ctctggacct cggtgtcccc atctgagtga gaaaaggcag 180

tggggaggtg gatcttccag tcgaagcggg atagaagccc gtgtgaaaag c 231

<210> 464
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 464
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 aaggacatca catatgaaga atgtttaagt tggaggtggc aacgtgaatt gcaaacaggg 120
 cctgtctcag tgactgtgtg cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180
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<210> 465
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 465
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 aggatggcac aatttttggc tgtgttcata atatactcag attagtccag ctccatcaga 180
 taaactggag acatgcagga cattagggta gtgttgtagc tctggtaatg a 231

<210> 466
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 466
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 ggccttcgaa cagaacttgc cacataccca ggtataatag tttctaacat ttgccagga 120
 cctgtgcaat caaatattgt ggagaattcc ctagctggag aagtcacaaa gactataggc 180
 aataatggag accagtccca caagatgaca accagtcgtt gtgtgaggct g 231

<210> 467
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 467
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 tgtgccttaa cagaaggtct tgagattcta agtgggaatc atttcagtga ctgtcatgtg 180
 gcatgggtct ctgccaagc tcgtaatgag actatagcaa ggcggctgtg ggacgtcagt 240
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 ctgcagcaga c 311

<210> 468
 <211> 3112
 <212> DNA
 <213> Homo sapiens

<400> 468

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<211> 2229
 <212> DNA
 <213> Homo sapiens

<400> 469

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<210> 470
 <211> 2426
 <212> DNA
 <213> Homo sapiens

<400> 470

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aattacactt	ttagtatttg	ctgtctcatg	tgatgatgaa	tctcatatgt	gtcccttctt	420
tgcatgaagt	aagatagtca	acttattcaa	aactttacat	cattctagat	ttaagagaca	480
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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<210> 476

<211> 3434

<212> DNA

<213> Homo sapiens

<400> 476

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<210> 477
 <211> 140
 <212> PRT
 <213> Homo sapiens

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<400> 477
Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro
      5                      10                      15

His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
      20                      25                      30

Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
      35                      40                      45

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
      50                      55                      60

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
      65                      70                      75                      80

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
      85                      90                      95

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
      100                     105                     110

Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
      115                     120                     125

Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
      130                     135                     140

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<210> 478
 <211> 143
 <212> PRT
 <213> Homo sapiens

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<400> 478
Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln

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<400> 479

Met Tyr A

Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val
 115 120 125
 Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr
 130 135 140
 Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His
 145 150 155 160
 Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala
 165 170 175
 Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp
 180 185 190
 Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala
 195 200 205
 Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val
 210 215 220

<210> 480
 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 480
 Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val
 5 10 15
 Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr
 20 25 30
 Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg
 35 40 45
 Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly
 50 55 60
 Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln
 65 70 75 80
 Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys
 85 90 95
 Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
 100 105 110
 Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
 115 120 125
 Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
 130 135 140

<400> 481

<400> 482

Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
20 25 30

Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
 35 40 45
 Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
 50 55 60
 Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
 65 70 75 80
 Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
 85 90 95
 Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
 100 105 110
 Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
 115 120 125
 Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
 130 135 140

<210> 483
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 483
 Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
 5 10 15
 Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
 20 25 30
 Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
 35 40 45
 Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
 50 55 60
 Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
 65 70 75 80
 Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg
 85 90 95
 Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val
 100 105 110
 Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val
 115 120 125
 Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys

130

135

140

<210> 484
 <211> 30
 <212> PRT
 <213> Homo Sapien

<400> 484
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile
 20 25 30

<210> 485
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 485
 gggaagctta tcacctatgt gccgcctctg c

31

<210> 486
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 486
 gcgaattctc acgctgagta tttggcc

27

<210> 487
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 487
 cccgaattct tagctgccca tccgaacgcc ttcac

36

<210> 488
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 488
gggaagcttc ttccccggct gcaccagctg tgc

<210> 489
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 489
Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
1 5 10 15
Ser Val Ala

<210> 490
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 490
Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
1 5 10 15
Leu Ser His Ser
20

<210> 491
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 491
Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
1 5 10 15
Thr Gly Phe Thr
20

<210> 492
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 492

Ala Leu Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr
 1 5 10 15
 Leu Ala Ser Leu
 20

<210> 493
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 493
 Tyr Thr Leu Ala Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro
 1 5 10 15
 Lys Tyr Arg Gly
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<210> 494
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 494
 Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser
 1 5 10 15
 Leu Met Ile Ser
 20

<210> 495
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 495
 Asp Ser Leu Met Thr Ser Phe Leu Pro Gly Pro Lys Pro Gly Ala Pro
 1 5 10 15
 Phe Pro Asn Gly
 20

<210> 496
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Made in a lab

<400> 496

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5					10					15	
Pro	Pro	Pro	Pro	Ala											
				20											

<210> 497

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 497

Leu	Leu	Pro	Pro	Pro	Ala	Leu	Cys	Gly	Ala	Ser	Ala	Cys	Asp	Val
1				5				10					15	
Ser	Val	Arg	Val											
				20										

<210> 498

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 498

Asp	Val	Ser	Val	Arg	Val	Val	Val	Gly	Glu	Pro	Thr	Glu	Ala	Arg	Val
1				5					10					15	
Val	Pro	Gly	Arg												
				20											

<210> 499

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 499

Arg	Val	Val	Pro	Gly	Arg	Gly	Ile	Cys	Leu	Asp	Leu	Ala	Ile	Leu	Asp
1				5					10					15	
Ser	Ala	Phe	Leu												
				20											

<210> 500

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 500

Leu	Asp	Ser	Ala	Phe	Leu	Leu	Ser	Gln	Val	Ala	Pro	Ser	Leu	Phe	Met
1				5					10					15	
Gly	Ser	Ile	Val												
			20												

<210> 501

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 501

Phe	Met	Gly	Ser	Ile	Val	Gln	Leu	Ser	Gln	Ser	Val	Thr	Ala	Tyr	Met
1				5					10					15	
Val	Ser	Ala	Ala												
			20												

<210> 502

<211> 414

<212> DNA

<213> Homo Sapiens

<220>

<221> misc_feature

<222> (1)...(414)

<223> n = A,T,C or G

<400> 502

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ctgtagagtt	tttggaatng	acctcagtag	caatgcaatg	agctgggtcc	gccaggctcc	180
agggaagggg	ctggaatgga	tcggagccat	tgataattgt	ccacantacg	cgacctgggc	240
gaaaggccga	ttnatnatnt	ccaaaacctn	gaccacggtg	gatttgaaaa	tgaccagtcc	300
gacaaccgag	gacacggcca	cctatttttg	tggcagaatg	aatactggta	atagtggttg	360
gaagaatatt	tggggcccag	gcaccctggt	caccgtntcc	tcaggccaac	ctaa	414

<210> 503

<211> 379

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(379)

<223> n = A,T,C or G

<400> 503

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agctatggag	tgagctgggt	ccgccaggct	ccagggaagg	ggctgggnata	catcggatca	180
ttagtagtag	tggtacattt	tacgcgagct	gggcgaaagg	ccgattcacc	atttccaaaa	240
cctngaccac	ggtggatttg	aaaatcacca	gtttgacaac	cgaggacacg	gccacctatt	300
tntgtgccag	aggggggttt	aattataaag	acatttgggg	cccaggcacc	ctggtcaccg	360
tntccttagg	gcaacctaa					379

<210> 504
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 504
 Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu
 1 5 10 15
 Asn Ser Ala

<210> 505
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 505
 Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr
 1 5 10 15
 Asn Thr Ala Asn
 20

<210> 506
 <211> 407
 <212> DNA
 <213> Homo Sapien

atggagacag	gcctgcgctg	gcttctcctg	gtcgcctgcgc	tcaaagggtg	ccagtgtcag	60
tcgctggagg	agtccggggg	tcgcctggtc	acgcctggga	cacccctgac	actcacctgc	120
accgtctctg	gattctccct	cagtagcaat	gcaatgatct	gggtccgcca	gggtccaggg	180
aaggggctgg	aatacatcgg	atacattagt	tatggtggtg	gcgcatacta	cgcgagctgg	240
gtgaaaggcc	gattcaccat	ctccaaaacc	tcgaccacgg	tgatctgag	aatgaccagt	300
ctgacaaccg	aggacacggc	cacctatttc	tgtgccagaa	atagtgattt	tagtggtatg	360
ttgtggggcc	caggcaccct	ggtcaccgtc	tcctcagggc	aacctaa		407

<210> 507
 <211> 422
 <212> DNA

<213> Homo Sapien

<400> 507

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acagtctctg gattctccct cagcaactac gacctgaact ggggccgcca ggctccaggg      180
aaggggctgg aatggatcgg gatcattaat tatgttggtg ggacggacta cgcgaactgg      240
gcaaaaggcc gggtcaccat ctccaaaacc tcgaccaccg tggatctcaa gatcgccagt      300
ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct      360
ggtcctgtct tgcgcatctg gggcccaggc accctgggtc ccgtctcctt agggcaacct      420
aa

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<210> 508

<211> 411

<212> DNA

<213> Homo Sapiens

<220>

<221> misc_feature

<222> (1)...(411)

<223> n = A,T,C or G

<400> 508

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cgggtggagg gtccgggggt cgctcgtgca cgctcgggac acccctgaca ctcacctgca      120
cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccaggga      180
aggggctgga atggatcgga atcattggta ctctcgtgga cacatactac gcgagggtgg      240
cgaaaggccg attcaccatc tccaaaacct cgaccacggt gcatntgaaa atcnccagtc      300
cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta      360
ctggttatta taaaatctgg ggcccaggca ccctgggtcac cgtctccttg g

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<210> 509

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 509

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Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1           5           10           15

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<210> 510

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 510

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Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
1           5           10           15

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<210> 511
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 511

Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	Gly	Gly	Gly	Gln	Asp	Gln	Lys
1				5				10						15

<210> 512
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 512

Asp	Ser	Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu
1				5					10					15

<210> 513
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 513

Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Asx	Val	Tyr	Thr	Asn	Leu
1				5					10					15

<210> 514
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 514

Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser
1				5					10					15

<210> 515
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Made in a lab

<400> 515

Met	Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg
1				5				10					15	

<210> 516

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 516

Val	Ser	Glu	Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln
1			5				10						15	

<210> 517

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 517

Glu	Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met
1			5				10						15	

<210> 518

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 518

Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	His	Tyr	Asp	Glu	Gly
1			5				10						15	

<210> 519

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 519

Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	Asn	Tyr	Asp	Glu	Gly	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1
Gly

5

10

15

<210> 520
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 520
Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
1 5 10 15
Glu Ala Arg Arg His Tyr Asp Glu Gly
20 25

<210> 521
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 521
Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
1 5 10 15
Pro Pro Pro Pro Ala
20

<210> 522
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 522
Leu Leu Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp
1 5 10 15
Phe Thr Gln Val
20

<210> 523
<211> 254
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<220>
 <221> VARIANT
 <222> (1)...(254)
 <223> Xaa = any amino acid

<400> 523

Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile
1				5				10					15		
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile
			20					25					30		
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu
		35					40					45			
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln
	50					55					60				
Trp	Val	Leu	Ser	Ala	Thr	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly
65					70				75						80
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
			85						90					95	
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
			100					105					110		
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
		115					120					125			
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
	130					135					140				
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
145				150						155					160
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu
			165						170					175	
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
		180						185					190		
Ala	Gly	Gly	Gly	Gln	Xaa	Gln	Xaa	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly
	195					200						205			
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
	210					215					220				
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
225					230					235					240
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser		
			245						250						

<210> 524
 <211> 765
 <212> DNA
 <213> Homo sapien

<400> 524

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ggatcgctcg	tctctggtag	ctgcagccaa	atcataaacg	gcgaggactg	cagcccgcac	120
tcgcagccct	ggcaggcggc	actggtcatg	gaaaacgaat	tgttctgctc	gggcgtcctg	180
gtgcatccgc	agtgggtgct	gtcagccgca	caactgttcc	agaactecta	caccatcggg	240
ctgggcctgc	acagtcttga	ggccgaccaa	gagccaggga	gccagatggg	ggaggccagc	300
ctctccgtac	ggcaccacga	gtacaacaga	cccttgctcg	ctaacgacct	catgctcatc	360
aagttggacg	aatccgtgtc	cgagtctgac	accatccgga	gcacgagcat	tgcttcgcag	420
tgccctaccg	cggggaactc	ttgcctcggt	tctggctggg	gtctgctggc	gaacggcaga	480
atgcctaccg	tgctgcagtg	cgtgaacgtg	tcgggtggtg	ctgaggagggt	ctgcagtaag	540

```

ctctatgacc cgctgtacca ccccagcatg ttctgcgccg gcggagggca agaccagaag 600
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 660
gtgtctttcg gaaaagcccc gtgtggccaa gttggcgtgc caggtgtcta caccaacctc 720
tgcaaattca ctgagtggat agagaaaacc gtccaggcca gttaa 765

```

<210> 525
 <211> 254
 <212> PRT
 <213> Homo sapien

```

<400> 525
Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
1      5      10      15
Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
20     25     30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
35     40     45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
50     55     60
Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
65     70     75     80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
85     90     95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
100    105    110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
115    120    125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
130    135    140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
145    150    155    160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
165    170    175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
180    185    190
Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly
195    200    205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
210    215    220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
225    230    235    240
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
245    250

```

<210> 526
 <211> 963
 <212> DNA
 <213> Homo sapiens

```

<400> 526
atgagttcct gcaacttcac acatgccacc tttgtgctta ttggtatccc aggattagag 60
aaagcccatt tctgggttgg ctccccctc ctttccatgt atgtagtggc aatgtttgga 120
aactgcatcg tgggtcttcat cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180
tttctctgca tgcttgcagc cattgacctg gccttatcca catccaccat gcctaagatc 240

```

```

cttgcccttt tctggtttga ttcccgagag attagctttg aggcctgtct taccagatg 300
ttctttattc atgccctctc agccattgaa tccaccatcc tgctggccat ggcctttgac 360
cgttatgtgg ccatctgccca cccactgcgc catgctgcag tgctcaacaa tacagtaaca 420
gccagattg gcatcgtggc tgtggtccgc ggatccctct tttttttccc actgcctctg 480
ctgatcaagc ggctggcctt ctgccactcc aatgtcctct cgcactccta ttgtgtccac 540
caggatgtaa tgaagttggc ctatgcagac actttgcccc atgtggtata tggctttact 600
gccattctgc tggatcatggg cgtggacgta atgttcatct ccttgctcta ttttctgata 660
atacgaacgg ttctgcaact gccttccaag tcagagcggg ccaaggcctt tggaacctgt 720
gtgtcacaca ttggtgtggt actgccttc tatgtgccac ttattggcct ctcaattgta 780
cacgcctttg gaaacagcct tcatccatt gtgcgtgttg tcatgggtga catctacctg 840
ctgctgcctc ctgtcatcaa tcccatcatc tatggtgccca aaaccaaaca gatcagaaca 900
cgggtgctgg ctatgttcaa gatcagctgt gacaaggact tgcaggctgt gggaggcaag 960
tga 963

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<210> 527

<211> 320

<212> PRT

<213> Homo sapiens

<400> 527

```

Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
          5                10                15

```

```

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
          20                25                30

```

```

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
          35                40                45

```

```

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
          50                55                60

```

```

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
          65                70                75                80

```

```

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
          85                90                95

```

```

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
          100               105               110

```

```

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
          115               120               125

```

```

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
          130               135               140

```

```

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
          145               150               155               160

```

```

Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
          165               170               175

```

```

Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu

```

180	185	190
Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val		
195	200	205
Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val		
210	215	220
Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys		
225	230	235
Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly		
	245	250
Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg		
	260	265
Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro		
275	280	285
Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala		
290	295	300
Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys		
305	310	315
		320

<210> 528
 <211> 20
 <212> DNA
 <213> Homo Sapien

<400> 528
 actatggtcc agaggctgtg 20

<210> 529
 <211> 20
 <212> DNA
 <213> Homo Sapien

<400> 529
 atcacctatg tgccgcctct 20

<210> 530
 <211> 1852
 <212> DNA
 <213> Homo sapiens

<400> 530
 ggcacgagaa ttaaaaccct cagcaaaaca ggcatagaag ggacatacct taaagtaata 60
 aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120
 tttcctctga gaactgcaac aataaataca aggatgctgg attttgtcaa atgccttttc 180
 tgtgtctggt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
 ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
 ctgcggcagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytccctgtcc 360

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gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420
ggagttcttc cttcatagtt catccatatg gctccagagg aaaattatat tattttgtta 480
tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540
ttgggtaggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
aaagtgtttg tttgtgaatg gatattgttg tttctggatc tcctcctctg tgggtggaca 660
gctttctcca ccttgcctga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
ccatcggtga tgcattcttc atttcttgca tttcttctc cctggatgga cagggggagc 780
ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840
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aacgtggctg cttggggaga ctacgatgac agcgccttca tggatcccag gtaccacgtc 960
catggagaag atctggacaa gctccacaga gctgcctggt ggggtaaaagt ccccagaaag 1020
gatctcatcg tcatgctcag ggacacggat gtgaacaaga gggacaagca aaagaggact 1080
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gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa attaattggc 1320
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tttctgacta caaagaaaaa cagatgttaa aaatctcttc tgaaaacagc aatccagaac 1680
aagacttaaa gctgacatca gaggaagagt cacaaaggct taaaggaagt gaaaacagcc 1740
agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
tgggattccc agaaaacctg actaacggtg ccgctgctgg caatggtgat ga 1852

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```

<210> 531
<211> 879
<212> DNA
<213> Homo sapiens

```

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<400> 531
atgcattctt catttctctgc atttcttctc ccttggatgg acagggggag cggcaagagc 60
aacgtgggca cttctggaga ccacaacgac tcctctgtga agacgcttgg gagcaagagg 120
tgcaagtggg gctgccactg cttccctctg tgcaagggga gcggcaagag caacgtggct 180
gcttggggag actacgatga cagcgccttc atggatccca ggtaccacgt ccatggagaa 240
gatctggaca agctccacag agctgcctgg tggggtaaaag tccccagaaa ggatctcatc 300
gtcatgctca gggacacgga tgtgaacaag agggacaagc aaaagaggac tgctctacat 360
ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggccgtaca atgccaggaa 480
gatgaatgtg cgttaatgtt gctggaacat ggcactgatc caaatattcc agatgagtat 540
ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
ggtatacatg agcaaaaaca gcaagtgggt aaatttttaa tcaagaaaaa agcgaattta 720
aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaga 840
cggccagaga gtatgctgtt tctagtcata atcatgtaa 879

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```

<210> 532
<211> 292
<212> PRT
<213> Homo sapiens

```

```

<400> 532

```


Met	His	Leu	Ser	Phe	Pro	Ala	Phe	Leu	Pro	Pro	Trp	Met	Asp	Arg	Gly	
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Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp	His	Asn	Asp	Ser	Ser	
				20					25					30		
Val	Lys	Thr	Leu	Gly	Ser	Lys	Arg	Cys	Lys	Trp	Cys	Cys	His	Cys	Phe	
				35					40					45		
Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val	Val	Ala	Trp	Gly	Asp	
				50					55					60		
Tyr	Asp	Asp	Ser	Ala	Phe	Met	Asp	Pro	Arg	Tyr	His	Val	His	Gly	Glu	
				65					70					75		
Asp	Leu	Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	
				85					90					95		
Lys	Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Arg	Asp	
				100					105					110		
Lys	Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	
				115					120					125		
Glu	Val	Val	Lys	Leu	Val	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	
				130					135					140		
Asp	Asn	Lys	Lys	Arg	Thr	Ala	Leu	Thr	Lys	Ala	Val	Gln	Cys	Gln	Glu	
				145					150					155		
Asp	Glu	Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	
				165					170					175		
Pro	Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Val	Tyr	Asn	Glu	
				180					185					190		
Asp	Lys	Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	
				195					200					205		
Ser	Lys	Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Ile	His	Glu	
				210					215					220		
Gln	Lys	Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	
				225					230					235		
Asn	Ala	Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	
				245					250					255		
Cys	Gly	Ser	Ala	Ser	Ile	Val	Ser	Pro	Leu	Leu	Glu	Gln	Asn	Val	Asp	
				260					265					270		
Val	Ser	Ser	Gln	Asp	Leu	Glu	Arg	Arg	Pro	Glu	Ser	Met	Leu	Phe	Leu	
				275					280					285		

Val Ile Ile Met
290

<210> 533
<211> 801
<212> DNA
<213> Homo sapiens

<400> 533
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gcaggctcag gagcagggtta tgcgctgcct tcggctctcc aatccatgcc tcagggtcc 120
tatgccactg cagcattctt ggttgccaag aggccaacca caggccatct tgagaaggag 180
tttatgttcc actgcagaaa gcagccagga tcaccatcca ggggacttgg tcttctgtgg 240
ccctggccag acatagaatt tgtgccaagg caggacaagc tctctcagag cagcgtgtta 300
gtacctcaaa tctgtgcgtg ccagacaagg ccaaactggc tcaatgagca accagccacc 360
tctgcagggg tgcgtctgga ggaggtggac cagccacca ccttaccag tcaaggaagt 420
ggatggccat gttccacag cctgagtggc tgccacctga tggctgatat agcaaaggcc 480
ttaggaaaag cagatggccc ttggccctac ctttttgta gaagaactga tgttccatgt 540
cctgcagcga gtgaggttgg tggctgtgcc cccagctcct ggcacaccct cgcagaggtg 600
actggttgct ctttgagccc tcttagcctt gccagcatg cacaagcctc agtgctacta 660
ctgtgctaca aatggagcca tataggggaa acgagcagcc atctcaggag caaggtgtat 720
gctgcctttg ggggtccag tccttgccctc aagggtctta tgtcactgtg ggcttcttgg 780
ttgccaagag gcagaccata g 801

<210> 534
<211> 266
<212> PRT
<213> Homo sapiens

<400> 534
Met Tyr Lys Leu Gln Cys Asn Asn Cys Ala Thr Asn Gly Ala Thr Glu
5 10 15
Arg Lys Gln Ala Ala Gly Ser Gly Ala Gly Tyr Ala Leu Pro Ser Ala
20 25 30
Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val
35 40 45
Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His
50 55 60
Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp
65 70 75 80
Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln
85 90 95
Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn
100 105 110
Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu
115 120 125

Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys
 130 135 140
 Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala
 145 150 155 160
 Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr
 165 170 175
 Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser
 180 185 190
 Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
 195 200 205
 Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys
 210 215 220
 Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
 225 230 235 240
 Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu
 245 250 255
 Trp Ala Ser Trp Leu Pro Arg Gly Arg Pro
 260 265

<210> 535
 <211> 6082
 <212> DNA
 <213> Homo sapiens

<400> 535
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 cgagagccgc ggccactgcc gcctgatcag cgcgaccccg gcccgcgccc gcccgccccg 180
 gcaagatgct gcccggtgtac caggaggtga agcccaaccc gctgcaggac gcgaacctct 240
 gctcacgcgt gttcttctgg tggctcaatc ccttgtttaa aattggccat aaacggagat 300
 tagaggaaga tgatatgtat tcagtgtctgc cagaagaccg ctcacagcac cttggagagg 360
 agttgcaagg gttctgggat aaagaagttt taagagctga gaatgacgca cagaagcctt 420
 ctttaacaag agcaatcata aagtgttact ggaaatctta tttagttttg ggaattttta 480
 cgттаattga ggaaagtgcc aaagtaatcc agcccatatt tttgggaaaa attattaatt 540
 attttgaaaa ttatgatccc atggattctg tggctttgaa cacagcgtac gcctatgccca 600
 cgggtgtgac tttttgcacg ctcatTTTTg ctatactgca tcacttatat ttttatcacg 660
 ttcagtgtgc tgggatgagg ttacgagtag ccatgtgccca tatgatttat cggaaggcac 720
 ttcgtcttag taacatggcc atggggaaga caaccacagg ccagatagtc aatctgctgt 780
 ccaatgatgt gaacaagttt gatcagggtga cagtgttctt acacttctctg tgggcaggac 840
 cactgcaggc gatcgcatgt actgccctac tctggatgga gataggaata tcgtgccttg 900
 ctgggatggc agttctaate attctctctgc ccttgcaaag ctgttttggg aagttgttct 960
 catcactgag gagtaaaact gcaactttca cggatgccag gatcaggacc atgaatgaag 1020
 ttataactgg tataaggata ataaaaatgt agccttggga aaagtcattt tcaaacttta 1080
 ttaccaattt gagaaaagaag gagattttcca agattctgag aagttcctgc ctcaggggga 1140

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Lys	Glu	Ile	Ser	Lys	Ile	Leu	Arg	Ser	Ser	Cys	Leu	Arg	Gly	Met	Asn	
305					310					315					320	
Leu	Ala	Ser	Phe	Phe	Ser	Ala	Ser	Lys	Ile	Ile	Val	Phe	Val	Thr	Phe	
				325					330					335		
Thr	Thr	Tyr	Val	Leu	Leu	Gly	Ser	Val	Ile	Thr	Ala	Ser	Arg	Val	Phe	
			340					345					350			

Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu Thr Val Thr Leu Phe
 355 360 365
 Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg
 370 375 380
 Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg
 385 390 395 400
 Gln Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr
 405 410 415
 Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser
 420 425 430
 Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly
 435 440 445
 Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro
 450 455 460
 Ser His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln
 465 470 475 480
 Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly
 485 490 495
 Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala
 500 505 510
 Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile
 515 520 525
 Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn
 530 535 540
 Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp
 545 550 555 560
 Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu
 565 570 575
 Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His
 580 585 590
 Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp
 595 600 605
 Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly
 610 615 620
 Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln
 625 630 635 640

Pro	Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn	Arg	Thr	Phe	Ser	Glu	645	650	655	
Ser	Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro	Ser	Leu	Lys	Asp	Gly	660	665	670	
Ala	Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro	Val	Thr	Leu	Ser	Glu	675	680	685	
Glu	Asn	Arg	Ser	Glu	Gly	Lys	Val	Gly	Phe	Gln	Ala	Tyr	Lys	Asn	Tyr	690	695	700	
Phe	Arg	Ala	Gly	Ala	His	Trp	Ile	Val	Phe	Ile	Phe	Leu	Ile	Leu	Leu	705	710	715	720
Asn	Thr	Ala	Ala	Gln	Val	Ala	Tyr	Val	Leu	Gln	Asp	Trp	Trp	Leu	Ser	725	730	735	
Tyr	Trp	Ala	Asn	Lys	Gln	Ser	Met	Leu	Asn	Val	Thr	Val	Asn	Gly	Gly	740	745	750	
Gly	Asn	Val	Thr	Glu	Lys	Leu	Asp	Leu	Asn	Trp	Tyr	Leu	Gly	Ile	Tyr	755	760	765	
Ser	Gly	Leu	Thr	Val	Ala	Thr	Val	Leu	Phe	Gly	Ile	Ala	Arg	Ser	Leu	770	775	780	
Leu	Val	Phe	Tyr	Val	Leu	Val	Asn	Ser	Ser	Gln	Thr	Leu	His	Asn	Lys	785	790	795	800
Met	Phe	Glu	Ser	Ile	Leu	Lys	Ala	Pro	Val	Leu	Phe	Phe	Asp	Arg	Asn	805	810	815	
Pro	Ile	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Lys	Asp	Ile	Gly	His	Leu	820	825	830	
Asp	Asp	Leu	Leu	Pro	Leu	Thr	Phe	Leu	Asp	Phe	Ile	Gln	Thr	Leu	Leu	835	840	845	
Gln	Val	Val	Gly	Val	Val	Ser	Val	Ala	Val	Ala	Val	Ile	Pro	Trp	Ile	850	855	860	
Ala	Ile	Pro	Leu	Val	Pro	Leu	Gly	Ile	Ile	Phe	Ile	Phe	Leu	Arg	Arg	865	870	875	880
Tyr	Phe	Leu	Glu	Thr	Ser	Arg	Asp	Val	Lys	Arg	Leu	Glu	Ser	Thr	Thr	885	890	895	
Arg	Ser	Pro	Val	Phe	Ser	His	Leu	Ser	Ser	Ser	Leu	Gln	Gly	Leu	Trp	900	905	910	
Thr	Ile	Arg	Ala	Tyr	Lys	Ala	Glu	Glu	Arg	Cys	Gln	Glu	Leu	Phe	Asp	915	920	925	

Ala	His	Gln	Asp	Leu	His	Ser	Glu	Ala	Trp	Phe	Leu	Phe	Leu	Thr	Thr	
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Ser	Arg	Trp	Phe	Ala	Val	Arg	Leu	Asp	Ala	Ile	Cys	Ala	Met	Phe	Val	
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Ile	Ile	Val	Ala	Phe	Gly	Ser	Leu	Ile	Leu	Ala	Lys	Thr	Leu	Asp	Ala	
				965					970					975		
Gly	Gln	Val	Gly	Leu	Ala	Leu	Ser	Tyr	Ala	Leu	Thr	Leu	Met	Gly	Met	
			980					985					990			
Phe	Gln	Trp	Cys	Val	Arg	Gln	Ser	Ala	Glu	Val	Glu	Asn	Met	Met	Ile	
		995					1000					1005				
Ser	Val	Glu	Arg	Val	Ile	Glu	Tyr	Thr	Asp	Leu	Glu	Lys	Glu	Ala	Pro	
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Trp	Glu	Tyr	Gln	Lys	Arg	Pro	Pro	Pro	Ala	Trp	Pro	His	Glu	Gly	Val	
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Ile	Ile	Phe	Asp	Asn	Val	Asn	Phe	Met	Tyr	Ser	Pro	Gly	Gly	Pro	Leu	
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Val	Leu	Lys	His	Leu	Thr	Ala	Leu	Ile	Lys	Ser	Gln	Glu	Lys	Val	Gly	
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Thr	Thr	Glu	Ile	Gly	Leu	His	Asp	Leu	Arg	Lys	Lys	Met	Ser	Ile	Ile	
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Pro	Gln	Glu	Pro	Val	Leu	Phe	Thr	Gly	Thr	Met	Arg	Lys	Asn	Leu	Asp	
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Pro	Phe	Asn	Glu	His	Thr	Asp	Glu	Glu	Leu	Trp	Asn	Ala	Leu	Gln	Glu	
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Val	Gln	Leu	Lys	Glu	Thr	Ile	Glu	Asp	Leu	Pro	Gly	Lys	Met	Asp	Thr	
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Glu	Leu	Ala	Glu	Ser	Gly	Ser	Asn	Phe	Ser	Val	Gly	Gln	Arg	Gln	Leu	
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Val	Cys	Leu	Ala	Arg	Ala	Ile	Leu	Arg	Lys	Asn	Gln	Ile	Leu	Ile	Ile	
1185					1190					1195					1200	
Asp	Glu	Ala	Thr	Ala	Asn	Val	Asp	Pro	Arg	Thr	Asp	Glu	Leu	Ile	Gln	
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<210> 538
 <211> 1261
 <212> PRT
 <213> Homo sapiens

<400> 538
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 20 25 30
 Gln Lys Pro Ser Leu Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser
 35 40 45
 Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val
 50 55 60
 Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr
 65 70 75 80
 Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr
 85 90 95
 Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr
 100 105 110
 Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys
 115 120 125
 His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly
 130 135 140
 Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn
 145 150 155 160
 Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro
 165 170 175
 Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile
 180 185 190
 Ser Cys Leu Ala Gly Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln
 195 200 205
 Ser Cys Phe Gly Lys Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr
 210 215 220
 Phe Thr Asp Ala Arg Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile
 225 230 235 240

Arg	Ile	Ile	Lys	Met	Tyr	Ala	Trp	Glu	Lys	Ser	Phe	Ser	Asn	Leu	Ile		
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Leu	Arg	Gly	Met	Asn	Leu	Ala	Ser	Phe	Phe	Ser	Ala	Ser	Lys	Ile	Ile		
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Ala	Ser	Arg	Val	Phe	Val	Ala	Val	Thr	Leu	Tyr	Gly	Ala	Val	Arg	Leu		
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Val	Gln	Asp	Phe	Thr	Ala	Phe	Trp	Asp	Lys	Ala	Ser	Glu	Thr	Pro	Thr		
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Gly	Glu	Leu	Ala	Pro	Ser	His	Gly	Leu	Val	Ser	Val	His	Gly	Arg	Ile		
			420					425					430				
Ala	Tyr	Val	Ser	Gln	Gln	Pro	Trp	Val	Phe	Ser	Gly	Thr	Leu	Arg	Ser		
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Asn	Ile	Leu	Phe	Gly	Lys	Lys	Tyr	Glu	Lys	Glu	Arg	Tyr	Glu	Lys	Val		
		450				455					460						
Ile	Lys	Ala	Cys	Ala	Leu	Lys	Lys	Asp	Leu	Gln	Leu	Leu	Glu	Asp	Gly		
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Asp	Leu	Thr	Val	Ile	Gly	Asp	Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln		
				485					490					495			
Lys	Ala	Arg	Val	Asn	Leu	Ala	Arg	Ala	Val	Tyr	Gln	Asp	Ala	Asp	Ile		
			500					505					510				
Tyr	Leu	Leu	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg		
			515				520					525					

His Leu Phe Glu Leu Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr
 530 535 540
 Ile Leu Val Thr His Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile
 545 550 555 560
 Leu Ile Leu Lys Asp Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu
 565 570 575
 Phe Leu Lys Ser Gly Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn
 580 585 590
 Glu Glu Ser Glu Gln Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn
 595 600 605
 Arg Thr Phe Ser Glu Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro
 610 615 620
 Ser Leu Lys Asp Gly Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro
 625 630 635 640
 Val Thr Leu Ser Glu Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln
 645 650 655
 Ala Tyr Lys Asn Tyr Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile
 660 665 670
 Phe Leu Ile Leu Leu Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln
 675 680 685
 Asp Trp Trp Leu Ser Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val
 690 695 700
 Thr Val Asn Gly Gly Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp
 705 710 715 720
 Tyr Leu Gly Ile Tyr Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly
 725 730 735
 Ile Ala Arg Ser Leu Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln
 740 745 750
 Thr Leu His Asn Lys Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu
 755 760 765
 Phe Phe Asp Arg Asn Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys
 770 775 780
 Asp Ile Gly His Leu Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe
 785 790 795 800
 Ile Gln Thr Leu Leu Gln Val Val Gly Val Val Ser Val Ala Val Ala
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Val Ile Pro Trp Ile Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe
 820 825 830
 Ile Phe Leu Arg Arg Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg
 835 840 845
 Leu Glu Ser Thr Thr Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser
 850 855 860
 Leu Gln Gly Leu Trp Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys
 865 870 875 880
 Gln Glu Leu Phe Asp Ala His Gln Asp Leu His Ser Glu Ala Trp Phe
 885 890 895
 Leu Phe Leu Thr Thr Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile
 900 905 910
 Cys Ala Met Phe Val Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala
 915 920 925
 Lys Thr Leu Asp Ala Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu
 930 935 940
 Thr Leu Met Gly Met Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val
 945 950 955 960
 Glu Asn Met Met Ile Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu
 965 970 975
 Glu Lys Glu Ala Pro Trp Glu Tyr Gln Lys Arg Pro Pro Ala Trp
 980 985 990
 Pro His Glu Gly Val Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser
 995 1000 1005
 Pro Gly Gly Pro Leu Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser
 1010 1015 1020
 Gln Glu Lys Val Gly Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser
 1025 1030 1035 1040
 Leu Ile Ser Ala Leu Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp
 1045 1050 1055
 Ile Asp Lys Ile Leu Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys
 1060 1065 1070
 Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met
 1075 1080 1085
 Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp
 1090 1095 1100

Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro
 1105 1110 1115 1120

Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val
 1125 1130 1135

Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn
 1140 1145 1150

Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr
 1155 1160 1165

Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr
 1170 1175 1180

Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys
 1185 1190 1195 1200

Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr
 1205 1210 1215

Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln
 1220 1225 1230

Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg
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Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser
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<211> 10

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<223> Made in a lab

<400> 539

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<210> 540

<211> 9

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<220>

<223> Made in a lab

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<210> 544
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<400> 546
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<210> 547
 <211> 58
 <212> PRT
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Glu Cys

<210> 549
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<400> 549

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Gln Ala

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 <212> DNA
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<210> 553

<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

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Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
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<210> 554

<211> 59

<212> PRT

<213> Homo sapiens

<400> 554

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          5                      10                      15

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```

Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val

```



```

<400> 555
Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln
      5              10              15

Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser
      20              25              30

Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp
      35              40              45

Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro
      50              55              60

Ser Asp Pro Leu Glu Leu Leu
      65              70

```

```

<400> 556
Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr
      5                      10                      15

Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr
      20                      25                      30

Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly
      35                      40                      45

Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile
      50                      55                      60

Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg
      65                      70                      75                      80

Ile

```

<210> 557
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 557
 Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu
 5 10 15
 Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu
 20 25 30
 Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys
 35 40 45
 Gly Phe His Ile Arg Phe
 50

<210> 558
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(77)
 <223> Xaa = Any amino acid

<400> 558
 Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu
 5 10 15
 Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
 20 25 30
 Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
 35 40 45
 Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
 50 55 60
 Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr
 65 70 75

<210> 559
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 559

Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser
 5 10 15

Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala
 20 25 30

Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala
 35 40 45

Pro Arg
 50

<210> 560
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 560
 Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly
 5 10 15

Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr
 20 25 30

Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn
 35 40 45

Thr Asp Leu Phe Leu Pro Pro Leu
 50 55

<210> 561
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(57)
 <223> Xaa = Any amino acid

<400> 561
 Val Leu His Leu Asp Gln Met Asn Asn Val Gly Ile Xaa Met Asp Lys
 5 10 15

Gly Leu Lys Ser Pro Glu Ile Lys Asn Pro Ala Pro Thr Gly Thr Ser
 20 25 30

Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn
 35 40 45

Ser Leu Pro Arg Glu Asn Tyr Leu Asn
 50 55

<210> 562
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(59)
 <223> Xaa = Any amino acid

<400> 562
 Asp Leu Tyr Pro Xaa Arg Ser Gln His Cys Ser Phe Asp Pro Ser Val
 5 10 15
 Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu
 20 25 30
 Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val
 35 40 45
 Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro
 50 55

<210> 563
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 563
 Cys Phe Leu Phe Pro Tyr Leu Trp Leu Tyr Ala Gln Pro Leu Phe Pro
 5 10 15
 Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His
 20 25 30
 Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met
 35 40 45
 Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg
 50 55 60
 Asp Pro Leu Arg Pro Leu Val Phe Ser Leu Ala Asp Ile Arg
 65 70 75

<210> 564
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 564


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<220>  
<221> VARIANT  
<222> (1)...(57)  
<223> Xaa = Any amino acid
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```

<400> 565
Leu Tyr Tyr Cys Ser Tyr Leu Cys His Phe Arg Thr Ala Leu Ile Leu
      5                                10                                15
.
Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln
      20                                25                                30
.
Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu
      35                                40                                45
.
Tyr Ala Val Ser Ser Xaa His Asn Val
      50                                55

```

```
<210> 566
<211> 55
<212> PRT
<213> Homo sapiens
```

```

<400> 566
Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg
          5                      10                      15

Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His
          20                      25                      30

Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro
          35                      40                      45

Leu Lys Leu Val Leu Leu Pro
          50                      55

```

<210> 567
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 567
 Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu
 5 10 15
 Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile
 20 25 30
 Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile
 35 40 45
 Phe Arg Thr
 50

<210> 568
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 568
 Lys Val Gly Glu Tyr Ile Leu Gln Ser Leu Leu Arg Ile Arg Lys Ile
 5 10 15
 Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu
 20 25 30
 Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
 35 40 45
 Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
 50 55 60
 Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu
 65 70 75

<210> 569
 <211> 4809
 <212> DNA
 <213> Homo sapiens

<400> 569
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 aatggacttg cttcaaagtg gaggcaggca gatccttcag acgggtatat ggagccctgt 240

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```

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<210> 570

<211> 951

<212> DNA

<213> Homo sapiens

<400> 570

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ccatttttagt actatgggtg agtacatgga attgaagtct ggcttaaate ttcagaaagt 180
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<210> 571

<211> 819

<212> DNA

<213> Homo sapiens

<400> 571

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<210> 572

<211> 203

<212> DNA

<213> Homo sapiens

<400> 572

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<210> 573

<211> 132

<212> PRT

<213> Homo sapiens

<400> 573

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Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
           5                10                15

Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
           20                25                30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
           35                40                45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
           50                55                60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
           65                70                75                80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
           85                90                95

Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
           100               105               110

Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile
           115               120               125

```

Leu Leu Asn Tyr
130

<210> 574
<211> 62
<212> PRT
<213> Homo sapiens

<400> 574
Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
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His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
 20 25 30
Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
 35 40 45
Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
 50 55 60

<210> 575
<211> 76
<212> PRT
<213> Homo sapiens

<400> 575
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
 5 10 15
Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
 20 25 30
Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
 35 40 45
Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
 50 55 60
Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
 65 70 75

<210> 576
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> unsure
<222> (42)

<223> Xaa = Any Amino Acid

<400> 576

```
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      5              10              15

Thr Val Cys Tyr Leu Ala Ser Ser Ser Ala Ser Arg Glu Thr Ala Thr
      20              25              30

Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln
      35              40              45

Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn
      50              55              60

Pro Gly Tyr Ser
      65
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<210> 577

<211> 57

<212> PRT

<213> Homo sapiens

<400> 577

```
Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg
      5              10              15

Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro
      20              25              30

Pro Ala Pro Val Pro Gly Ser Phe Pro Met Phe Pro Arg Phe Gly Phe
      35              40              45

Arg Leu Ala Pro Pro Ala Asp Thr Pro
      50              55
```

<210> 578

<211> 51

<212> PRT

<213> Homo sapiens

<400> 578

```
Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His
      5              10              15

His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr
      20              25              30

Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr
      35              40              45

Gln Pro His
```

50

<210> 579
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 579
 Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
 5 10 15
 Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
 20 25 30
 Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
 35 40 45
 Ile Ala Lys Val Tyr Gln Pro His
 50 55

<210> 580
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 580
 Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser
 5 10 15
 Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
 20 25 30
 Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
 35 40 45
 His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
 50 55 60
 Phe Ile His
 65

<210> 581
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 581
 Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu
 5 10 15
 Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser

	20		25		30										
Thr	Ala	Ala	Asp	Ile	Leu	Cys	Asp	Ser	Leu	Glu	Ser	Ser	Arg	Pro	Ala
	35		40		45										
Ala	His	Ile	Leu	Glu	Gly	Lys	Met	Gly	Thr	Met	Leu	Ser	Ala	Thr	Leu
	50		55		60										
Gly	Pro	Ser	Trp	Val	Thr	Cys	Ile	Leu	His	Leu	Cys	Ser			
	65		70		75										

<210> 582
 <211> 51
 <212> PRT
 <213> Homo sapiens

	<400> 582														
Met	Leu	Phe	Leu	Gln	Thr	Ile	Asp	Thr	Lys	Cys	Thr	Gly	Ile	Glu	Ile
			5						10					15	
Asn	Arg	Asn	Trp	Ser	Lys	Val	Trp	His	Thr	His	Ser	His	Val	Asp	Val
			20					25					30		
Lys	Leu	Cys	Leu	Glu	Phe	Leu	Cys	Gly	Val	Trp	Phe	Gly	Leu	Gly	Phe
		35					40					45			
Leu	Gly	Val													
	50														

<210> 583
 <211> 60
 <212> PRT
 <213> Homo sapiens

	<400> 583														
Met	Ser	Thr	Ser	Asp	Gly	Phe	Ala	Pro	Pro	Pro	Gln	Leu	Gly	Ser	Arg
				5					10					15	
Cys	Ser	His	Ile	Arg	Gly	Pro	Ile	Lys	Ile	Ala	Arg	Asn	Lys	Phe	Pro
			20					25					30		
Arg	Thr	Leu	Thr	Ser	Gln	Glu	Leu	Arg	Arg	Phe	Ala	Glu	Tyr	Ser	Gly
		35					40					45			
Met	Met	Phe	Gly	Asp	Gln	Thr	Thr	Ala	Gly	Gln	Lys				
	50					55					60				

<210> 584
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 584

Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 585

<211> 50

<212> PRT

<213> Homo sapiens

<400> 585

Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
 5 10 15

Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
 20 25 30

Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
 35 40 45

Leu Phe
 50

<210> 586

<211> 60

<212> PRT

<213> Homo sapiens

<400> 586

Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
 5 10 15

Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

```
<210> 587
<211> 1408
<212> DNA
<213> Homo sapiens
```

<400> 587						
ctggacactt	tgcgagggct	tttgctggct	gctgctgctg	cccgtcatgc	tactcatcgt	60
agcccccccg	gtgaagctcg	ctgctttccc	tacctcctta	agtgactgcc	aaacgcccac	120
cggctggaat	tgctctggtt	atgatgacag	agaaaatgat	ctcttcctct	gtgacaccaa	180
cacctgtaaa	tttgatgggg	aatgtttaag	aattggagac	actgtgactt	gcgtctgtca	240
gttcaagtgc	aacaatgact	atgtgcctgt	gtgtggctcc	aatggggaga	gctaccagaa	300
tgagtgttac	ctgcgacagg	ctgcatgcaa	acagcagagt	gagatacttg	tggtgtcaga	360
aggatcatgt	gccacagatg	caggatcagg	atctggagat	ggagtccatg	aaggctctgg	420
agaaactagt	caaaaggaga	catccacctg	tgatatttgc	cagtttggtg	cagaatgtga	480
cgaagatgcc	gaggatgtct	ggtgtgtgtg	taatattgac	tgttctcaaa	ccaacttcaa	540
tcccctctgc	gcttctgatg	ggaaatctta	tgataatgca	tgccaaatca	aagaagcatc	600
gtgtcagaaa	caggagaaaa	ttgaagtcac	gtctttgggt	cgatgtcaag	ataacacaac	660
tacaactact	aagtctgaag	atgggcatta	tgcaagaaca	gattatgcag	agaatgctaa	720
caaattagaa	gaaagtgcc	gagaacacca	cataccttgt	ccggaacatt	acaatggctt	780
ctgcatgcat	gggaagtgtg	agcattctat	caatatgcag	gagccatctt	gcagggtgtga	840
tgctggttat	actggacaac	actgtgaaaa	aaaggactac	agtgttctat	acgttgttcc	900
cggctctgta	cgatttcagt	atgtcttaat	cgcagctgtg	attggaacaa	ttcagattgc	960
tgtcatctgt	gtgggtgtcc	tctgcatcac	aaggaaatgc	cccagaagca	acagaattca	1020
cagacagaag	caaaatacag	ggcactacag	ttcagacaat	acaacaagag	cgtccacgag	1080
gttaatctaa	agggagcatg	tttcacagtg	gctggactac	cgagagcttg	gactacacaa	1140
tacagtatta	tagacaaaag	aataagacaa	gagatctaca	catgttgctt	tgcatattgtg	1200
gtaatctaca	ccaatgaaaa	catgtactac	agctatatatt	gattatgtat	ggatatatttt	1260
gaaatatgat	acattgtctt	catgtttttt	ctgtaatgta	aataaactat	ttatatcaca	1320
caatawagtt	ttttctttcc	catgtatttg	ttatatataa	taaatactca	gtgatgagaa	1380
aaaaaaaaaa	aaaaaaaaaa	rwmqaccc				1408

```
<210> 588
<211> 81
<212> PRT
<213> Homo sapiens
```

```

<400> 588
Met  Pro  Gln  Lys  Gln  Gln  Asn  Ser  Gln  Thr  Glu  Ala  Lys  Tyr  Arg  Ala
           5              10              15

Leu  Gln  Phe  Arg  Gln  Tyr  Asn  Lys  Ser  Val  His  Glu  Val  Asn  Leu  Lys
           20              25              30

Gly  Ala  Cys  Phe  Thr  Val  Ala  Gly  Leu  Pro  Arg  Ala  Trp  Thr  Thr  Gln
           35              40              45

Tyr  Ser  Ile  Ile  Asp  Lys  Arg  Ile  Arg  Gln  Glu  Ile  Tyr  Thr  Cys  Cys
           50              55              60

Leu  Ala  Phe  Val  Val  Ile  Tyr  Thr  Asn  Glu  Asn  Met  Tyr  Tyr  Ser  Tyr
           65              70              75              80

```

Ile

<210> 589
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 589
 Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
 5 10 15
 Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
 20 25 30
 Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
 35 40 45
 Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
 50 55 60
 Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
 65 70 75 80
 Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
 85 90 95
 Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
 100 105 110
 Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
 115 120 125
 Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly
 130 135 140
 Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
 145 150 155

<210> 590
 <211> 347
 <212> PRT
 <213> Homo sapiens

<400> 590
 Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr
 5 10 15
 Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr
 20 25 30
 Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys

325

330

335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
340 345

<210> 591
<211> 565
<212> DNA
<213> Homo sapien

<400> 591
actaaagcaa atgaacaagc tgacttgcta gtatcatctg cattcattga agcacaagaa 60
cttcatgcct tgactcatgt aaatgcaata ggattaaaaa ataaatttga tatcacatgg 120
aaacagacaa aaaatattgt acaacattgc acccagtgtc agattctaca cctggccact 180
caggaagcaa gagttaatcc cagaggtcta tgtcctaata tggtatggca aatggatgtc 240
atgcacgtac cttcatttgg aaaattgtca tttgtccatg tgacagttga tacttattca 300
catttcatat gggcaacctg ccagacagga gaaagtactt cccatgttaa aagacattta 360
ttatcttggt ttctgtcat gggagttcca gaaaaagtta aaacagacaa tgggccaggt 420
tactgtagta aagcatttca aaaattctta aatcagtgga aaattacaca tacaatagga 480
attctctata attcccaagg acaggccata attgaaggaa ctaatagaac actcaaagct 540
caattgggta aacaaaaaaa aaaaa 565

<210> 592
<211> 188
<212> PRT
<213> Homo sapien

<400> 592
Thr Lys Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Ile
1 5 10 15
Glu Ala Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu
20 25 30
Lys Asn Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln
35 40 45
His Cys Thr Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Ala Arg
50 55 60
Val Asn Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val
65 70 75 80
Met His Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val
85 90 95
Asp Thr Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser
100 105 110
Thr Ser His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly
115 120 125
Val Pro Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys
130 135 140
Ala Phe Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly
145 150 155 160
Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg
165 170 175
Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys
180 185

<210> 593
 <211> 271
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(271)
 <223> n = A,T,C or G

```
<400> 593
actttatgtt cnagtgcana aancncctg gattgccacc ntactctcag ggctgtgant      60
tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggt      120
gtccctagct ggggtctata catgncnggg naagggcngc tgagtnccat nagcaaagga      180
nctagnatnt gcgggggtgc ggctgggcc taccctttna agcatccntn gatccactcc      240
angaancng  gggtagncag gtttnccaac a                                     271
```

<210> 594
 <211> 376
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(376)
 <223> n = A,T,C or G

```
<400> 594
cctttggggg nggggggaac ctttaccatt gtnccctttt atttcatttg gttngggttc      60
gcgccctcnn gggccaacaa agttatcgtn nttgaagaga anattttttt ggnttngncc      120
cgattaagcg ncaaatgtgt agcaaaangc cgtgccactt gtggcgtagc tncgtcgggt      180
cgattcgacg acaaggcgtn gcgcgntanc gttagtctcn aatngaccen gtggcatgag      240
cccacgangg nttcgtgtcg tcacatggnc tctagacata acgcncncn ttttttncag      300
agggggntgc cgcccttagg gaggnagggg tggggacact agccaancca nantctnacc      360
ccattgaaga aaaggn                                     376
```

<210> 595
 <211> 242
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(242)
 <223> n = A,T,C or G

```
<400> 595
agnctgctgn tcgtncctn tatgtggctt catnntgagg acaanagtng cactgaggct      60
tgngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgnaangggg      120
atgccangag cangtgcacc agtcccaact angagnccn ggcatgntac atcttcttcc      180
accctnaaa ntttngtcta caangnccat ttttctttt ctcttaaggg ncnntggct      240
tc                                     242
```

<210> 596
 <211> 535
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(535)
 <223> n = A,T,C or G

```
<400> 596
accagttgga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatttt      60
gaaagctttt taaatttttt ctttaagaag attttagatg cttatcactg agtaccagag      120
ggatgtaggc tgatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta      180
ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctggtg      240
gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac      300
tcctggtgct gacccagggt cctggaggaa gggatgaggt gggcagtaga gatgctcagg      360
gcagtggccc ctttccatcc acactggaac tatttcagta ttttaccacc aattcagcca      420
ttcccttggt cgctggctga acatcagccc tgctccaggt ctcagtttcc cctttgtaaa      480
gggaaagctc tggattcagg gagtgatgaa gaggtcatca tggctctgag aattc      535
```

<210> 597
 <211> 257
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(257)
 <223> n = A,T,C or G

```
<400> 597
tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat      60
tntntaactt ttgggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn      120
attnctctta agatnngatn agaccccggt tttcacggaa catatccaag nacccaatag      180
gnaacaagcc acggngngag tcacaaacat atattcttta ctctcataat ccgtnncaca      240
naactnttgn acttgac      257
```

<210> 598
 <211> 222
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(222)
 <223> n = A,T,C or G

```
<400> 598
nntggntacc gtcnaaactt nnettggtac ccgagctcgg atccactagt ccagtgtggt      60
ggaattccat tgtgttgggc tataagctgt aatagtggag ncgtgctnng ttcattgcan      120
nagnccctcc gcanncacnc ttgnnacaac ctgtgagnag gcnataaatt attcacataa      180
tcatcactgc atgaanctga ctcaaacgca tccacntaca cc      222
```


<210> 599
 <211> 238
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(238)
 <223> n = A,T,C or G

<400> 599
 gcatgacatc ancgatgtnt ttggnnacct ganattngct aaaactngng natgccgggn 60
 atgnaggttt ggtantgatc tatgcactca catctcatgg ggacgtttca tgtggagtgn 120
 tcgacaangt tgctgnancn gagaagtgat gatctcagtt gaaaggggtca tgtgaataca 180
 cnttacactt gaaaaagaag cacattggga atatcacgaa acgnccacca acatcctg 238

<210> 600
 <211> 232
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(232)
 <223> n = A,T,C or G

<400> 600
 cgaactatth agactaccta ggaaaattat ttagtatca gaagaatatc aggggtgtag 60
 tactcatcag agctaaatga gagecgttta aaaatgttag tttgtcttcc gccatttcta 120
 cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaaagc 180
 aatcgcaaag agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

<210> 601
 <211> 547
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(547)
 <223> n = A,T,C or G

<400> 601
 cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgcca ttgctttttt 60
 tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
 gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc 180
 ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga 240
 catgtaatcc gcggagttag taactcaaaa cgagtgcac tnggaagtat cgagccggtt 300
 nctggatnaa attcccagct tgctngcttg ctnagccggg gggcggtnaa aaaaacatct 360
 gcagcccngg ggnaaaaacc ttcgcattgt tcttacgtgt ttacgttatt ttattttcct 420
 nnagcaaggc nggganttgg ggactcgaaa tggtagctgt gggctgggga tcgcccttgt 480
 tacataaaag ncgtccagaa gagggacggt tacaggcngg ganctccaaa ggtcagtcct 540
 tgccatt 547

<210> 602
 <211> 826
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(826)
 <223> n = A,T,C or G

```
<400> 602
cgggggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg      60
taccattcga gtccctactc ctgccttgct ctagggaaat aaaataacgt aaacacgtaa      120
gaacaatgcg aaagcgTTTT cttccctagg ctgcagattg tcttcttcac cgccctgct      180
tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca      240
ctcgTTTTga gttacaaact ccgcggatta catgtctttt taaaaaagtt tagactacac      300
tagggaaaaa tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna      360
atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt      420
caggTTTTca ncctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact      480
gctTTTTcaa atcatttttc tcttctaggt atagcctgtc aggtggccta atgtattttt      540
gacatctcta ggaatttttaa tagaccagaa atgggtgccg gagatatgcc tgcactaatc      600
ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga      660
aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg      720
cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggctctga ataccaagc      780
nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc      826
```

<210> 603
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

```
<400> 603
nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag      60
agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa      120
tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt      180
agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa      240
aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca      300
gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc      360
tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgctctc      420
atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta      480
gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag      540
tgcacttagg aggtatcgca agccgtttct ggattaaatt cccagctagc ttgcttgctt      600
agcaggggcg ggnaaanaag acatctgcag ctaggggaag aaaacctttc gcattgttct      660
tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatggttcag      720
ttgggggtgg ggatccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca      780
agggtcgtcc tgcatttana ctcggaattt tgggtgcc      817
```

<210> 604
 <211> 694

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(694)
<223> n = A,T,C or G

```
<400> 604
cttttcaaat cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt    60
gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat    120
cttaagtggg gatttatgta tttctcaagc aagtgattaa agcaaaacta ggcacgattg    180
aatcaagat ctttttaggca anaaagtcac gatgagtttt agaattatnt taggactctg    240
tggcttttctc ttcatagaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat    300
agccaaagca acactganca aaaagaacan agcagggaag caacacacta ccngaattca    360
aattatacta ccagggtgta gtaacccaaa cagcattcta ttggcataaa atagacacca    420
agaccaatgg ancagaataa agaaccacac aaataaatcc atatatntac cgccanctga    480
ttatcaataa cnaacaccaa gaacatatnt taagggacnt nctatttcaat aantagtgtc    540
ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agacccttat ccctcaccat    600
acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact    660
atnaaancta ctattaagaa aacagatcnc nccc                                694
```

<210> 605
<211> 678
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

```
<400> 605
taaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt    60
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttccg ccattttctac    120
agaaagctgc aatttcaggt tttcaacctc atagggtgata ttttaagaaa aaaaaaagca    180
atcgcaataa gccccactgc ttttacaatc cattttttct cttctaggta tagcctgtca    240
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc    300
agagatatgc ctgcactaat cttaagtggg gatttatgta tttctcaagc aagtgattaa    360
agcaaaacta ggcacgattg aaatcaanat ctttttaggca agaaagtcac gatgagtttt    420
anaattatnt taggactctg tggcttttctc ttcatagaaa tagaaaaaaa aaattgtata    480
aaaaccacaa aaggtcctga atagcccaaa gcaacactga acaaaangaa caaagcagga    540
agcaacacac taccggaatt caattatact accaaggtgt antaaccaaa acagcattct    600
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaaataaat    660
cctatatatta cngccnc                                678
```

<210> 606
<211> 263
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(263)

<223> n = A,T,C or G

<400> 606

gtggggtcng	cancagccaa	ctcagcttcc	tttcgggctt	tgtagcaga	cggatcatcc	60
tctagtccac	tgtgntcaaa	ttccattgtg	tgggggccc	tcgctcggc	canagatctg	120
agtgancana	cntgtcccca	ctgaggtgcc	ccacagcngn	ttgtnttcag	cangggctna	180
caactcgacc	ggcagcgna	ggctggcaga	antgngcgcc	tnnctcattc	ctacgngtn	240
ngccgcagga	aggangacag	gcc				263

<210> 607

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 607

ccatgtgggt	cccggttgtc	tt	22
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<210> 608

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 608

gataggggtg	ctcaggggtt	gg	22
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<210> 609

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 609

gctggacagg	gggcaaaagc	tggggcagtg	aaccatgtgc	40
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<210> 610

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 610

ccttgtccag	atagcccagt	agctgac	27
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<210> 611

<211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 611
 gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc 46

<210> 612
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 612
 gcacatgggt cactgcccc gcttttgccc cctgtccagc 40

<210> 613
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 613
 gccgctcgag ttagaattcg gggttggcca cgatggtg 38

<210> 614
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 614
 cggcgggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca 53

<210> 615
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 615
 gcactcccag cctcccacaa tactggcctg gacggttttc tctatc 46

<210> 616
 <211> 1350
 <212> DNA
 <213> Homo sapien

<400> 616
 atgcatcacc atcaccatca catcataaac ggcgaggact gcagcccgca ctcgcagccc 60
 tggcaggcgg cactggtcat ggaaaacgaa ttgttctgct cgggcgtcct ggtgcatccg 120
 cagtgggtgc tgtcagccgc aactgtttc cagaactcct acaccatcgg gctgggcctg 180
 cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240
 cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac 300
 gaatccgtgt cagagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360
 gcggggaact ctgacctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420
 gtgctgcagt gcgtgaacgt gtcgggtggtg tctgaggagg tctgcagtaa gctctatgac 480
 ccgctgtacc accccagcat gttctgcgcc ggcgaggggc aagaccagaa ggactcctgc 540
 aacggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600
 ggaaaagccc cgtgtggcca agttggcgtg ccaggtgtct acaccaacct ctgcaaattc 660
 actgagtga tagagaaaac cgtccaggcc agtattgtgg gaggctggga gtgcgagaag 720
 cattccaac cctggcaggt gcttgtggcc tctcgtggca ggcagtcgt cggcgtgtgt 780
 ctggtgcacc cccagtgggt cctcacagct gccactgca tcaggaacaa aagcgtgac 840
 ttgctgggtc ggcacagcct gtttcatacct gaagacacag gccaggtatt tcaggtcagc 900
 cacagcttcc cacaccgct ctacgatatg agcctcctga agaatcgatt cctcaggcca 960
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 gatgctgtga aggtcatgga cctgcccacc caggagccag cactggggac cacctgctac 1080
 gcctcaggct ggggcagcat tgaaccagag gagttcttga ccccaaagaa acttcagtgt 1140
 gtggacctcc atgttatttc caatgacgtg tgtgcgcaag ttcaccctca gaaggtgacc 1200
 aagttcatgc tgtgtgctgg acgctggaca gggggcaaaa gctggggcag tgaaccatgt 1260
 gccctgcccg aaaggccttc cctgtacacc aagtggtgac attaccggaa gtggatcaag 1320
 gacaccatcg tggccaaccc cgaattctaa 1350

<210> 617
 <211> 449
 <212> PRT
 <213> Homo sapien

<400> 617
 Met His His His His His Ile Ile Asn Gly Glu Asp Cys Ser Pro
 1 5 10 15
 His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe
 20 25 30
 Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His
 35 40 45
 Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu
 50 55 60
 Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val
 65 70 75 80
 Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu
 85 90 95
 Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile
 100 105 110
 Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser
 115 120 125
 Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys
 130 135 140

Val Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp
 145 150 155 160
 Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln
 165 170 175
 Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly
 180 185 190
 Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val
 195 200 205
 Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile
 210 215 220
 Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys
 225 230 235 240
 His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val
 245 250 255
 Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His
 260 265 270
 Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe
 275 280 285
 His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro
 290 295 300
 His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro
 305 310 315 320
 Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro
 325 330 335
 Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu
 340 345 350
 Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu
 355 360 365
 Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His
 370 375 380
 Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr
 385 390 395 400
 Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly
 405 410 415
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val
 420 425 430
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu
 435 440 445
 Phe

<210> 618
 <211> 385
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(385)
 <223> n = A,T,C or G

<400> 618
 ctgtgctgag aaccaaagc tatgancact gcttttccaa atgtccataa naccaacatt 60
 tttatcacta ccaccatcac ctgggagctc nttagaaagc tagtctcccg ggcaccaccc 120

tggcctactg	aacctaattgt	gcattttaaca	agattnacgt	ngaaatctgc	aaagcacagg	180
ggcngataac	agtaccacct	gntctgggtc	ctanccccc	gacccttaca	gtctaactgg	240
gacacaaggg	cttnaaatca	aattgcctat	cattaagata	tacaanganc	ntgagaaact	300
gctncactta	tntattaagg	ngctctaaga	cttagaaacn	aaangcantg	ctgagangat	360
tcaaatatga	ngggggncac	tttnc				385

<210> 619
 <211> 869
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(869)
 <223> n = A,T,C or G

<400> 619						
gatatcccgg	gaattcgcg	ccgcgtcgac	ctctacttgt	ttagacataa	atgcagtcta	60
gcattaaaga	tcctttaaaa	aaatgttttc	ccaatgggta	aaagacaagc	tcaaataaat	120
gaactctcat	acatatgcc	aaattgatga	gtagataaat	atttcagtag	gtagttacta	180
gctttctgtg	tatgagtaaa	catatgggag	aaatttaaaa	cactaaagta	gactcaatga	240
aagcatagta	tcctatgtat	tcgtttttca	gaaatgtcta	atgaagggaag	gaaacaatga	300
atgaatgccc	ttattccctc	tagagtgcgt	ggacatgggt	ttgcctgaaa	acttcatgtg	360
aattttatat	tttgctacac	attacaccca	tcttagactt	atacgtataa	gacataaggc	420
atatcttatg	tcttacatgt	ataataatct	aagcagaaca	aaaaataacg	aaatatatttc	480
ttccccaaat	ttttgagaca	gatggatttt	ccggaaagat	gtgttttagct	tttaatcctg	540
tggttttgtg	taccacctgg	cacactagag	tggtgctcta	attcagtgag	ttgtaactct	600
gggtgaacag	tggaaatact	agggtagatt	ttaaaaatgc	taatgctcgg	gcctcgctga	660
agaccaaatt	aattggaatc	tctgngggng	gnattgatct	ttttataatc	tttctanang	720
attctaattg	gcttccagg	atgaaaacn	ctgntggagc	tnggaacctt	cctttagttt	780
ggagaaaacc	cgatgagggt	ntnttaggcn	ccgcctnttt	ttggcctggg	cttccccctt	840
tatnntnttt	tgggaangnc	cnaattttt				869

<210> 620
 <211> 339
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(339)
 <223> n = A,T,C or G

<400> 620						
gngcgggcct	cncctgtgct	gctctcgctg	ccgacgctct	ttttccacca	gctgtaggan	60
aagcccgaag	accactgggt	ccccgggtag	cccaagtacc	actggctcct	ctggctcctg	120
acgctncggg	tcttcctcgt	ggcgtagact	gccagcttcg	gagacccctc	agccccctcc	180
cgctttttct	caccccagga	ggccatcagt	agcgagctac	tgccctcgcc	acaacctccc	240
agcangatag	ccgcgggttt	ccaatctcgc	aaaggaggac	cgcenagccc	gaaatgccna	300
gcccagcnat	cactgccacg	ccgagccnag	cgctcgtgc			339

<210> 621
 <211> 267
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(267)

<223> n = A,T,C or G

<400> 621

ggggngcatg	gtcccnggta	gccaaagtaca	tggtcctcct	ggctcctgac	gctacggggtc	60
ttcctcgtgg	cgtagactgc	cagcttcgga	gacccctcag	cccctccccg	cttttctcca	120
ccccaggagg	ccatcagtag	cgagctactg	cctcggccac	aacctcccag	caggatngcc	180
cgcggtttcc	aatctgcgaa	aggaggaccg	ccnagccaga	aatgccnagc	cnagcgatca	240
ctgccacgcc	nagccnagcg	ctcgtgc				267

<210> 622

<211> 847

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(847)

<223> n = A,T,C or G

<400> 622

cttangntgt	cgactgacgt	catgcatgan	ttaaagcaga	ggtttggtga	aatttatgaa	60
aaatacaaaa	ttccggcttg	tcctgaggaa	gagccactac	ttgataactc	tacaagagga	120
acagatgtga	aggatatctc	ctttaatttg	acaaataaca	tacctgggtg	tgaggaagaa	180
gatgcatctg	aaatatctgt	ctcagtggtg	ttcgagacat	ttcctgaaca	aaaagaaccc	240
agtctcaaaa	atatcatcca	tccatactat	catccgtact	ctgggtccca	ggaacatgtt	300
tgccagtcac	cttctaagct	tcattttacat	gaaaataaat	tagactgcga	caatgataac	360
aaactaggca	ttggacatat	ttttagtgaca	gataacaact	ttcataatga	tgcaagcact	420
aagaaagcaa	ggaacccaga	agtggttacg	gttgaaatga	aagaagacca	agagtttgat	480
ttgcaaataga	caaaaaatat	gaaccaaaat	agtgacagtg	gcagtacaaa	taactataaa	540
agcctgaaac	ctaaattaga	aaatctgagt	tcctttaccac	cagattctga	cagaacatca	600
ggaagtatac	ctacatgaag	aattacagca	agacatgccca	aaagtttaag	aatgangtca	660
acacattaga	aanaagantt	ctgggctttg	aagaaagaaa	atgttcact	tcataaagaa	720
ggtttgaaaga	agaatgggag	agcccngaan	tttttgcccn	gaaattttcg	ggaaccctac	780
tggtatgggtc	nactggttgg	ccatgaatga	ataatggact	aatcnnccaa	ttcctnggga	840
agggaaat						847

<210> 623

<211> 681

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(681)

<223> n = A,T,C or G

<400> 623

aaaactgtac	tcgcgcgctg	catgtcgaca	ctagtggatc	caaagaatcg	gcacgagcga	60
aaangctcan	gcagcccggc	tggcgcgcgc	cgctcctccc	cccaggaaag	ccaangtgga	120

ngctgatgtg	gctgcangag	ctcgtttcac	agccccctcan	gtgganctgg	ttggggccgcg	180
gctgccangg	gcggaagtgg	gtgtccccan	gtctcagccc	caaggctgcc	cctcacaaaag	240
cactgggtgg	ttgcctccac	tgccaccttg	ggctccgaac	ccgctccccct	gctgtggang	300
cccaccgtgg	gaatccaggt	ccccaggtgg	actgcctgcc	ttgccctcac	tgcccactct	360
gcccacactt	ccctgcctag	anaccgggaa	ggggctgtgt	cggtantgg	gcccacctgg	420
atgtggcagc	accgactgtg	gggggtggacc	tggccttgcc	gggtgcaaaa	gtggggggccc	480
ngggaaaagc	acctgaagtg	gccctgaaaa	atccccctt	aatttttnc	caatttgggg	540
ctcnaacaaa	aggaaattgc	tgaagccaan	ggtaccaagg	tcaccctaa	ggccagggtg	600
aaaaggtccc	aaaattccaa	tncccacnt	ttgggcttnc	ctcttgaac	cccggcccc	660
tctcntgaan	ttttaaaaa	n				681

<210> 624

<211> 661

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(661)

<223> n = A,T,C or G

<400> 624

attggtctta	ctgtaccacc	gggtggaaat	cgatggccgc	ggcgtctaaa	tatccgattt	60
ttttttttt	tcctcttctg	actgtccatg	gacaaatgaa	actaacttaa	tctaactaaa	120
aaacacaact	atattttgaa	gattttctat	ctgcactcaa	ggacactttc	cacncgggtg	180
ttgttacctt	ttggtcttgt	ctctgaacat	gaaattnate	tcaagggtt	ngattttctg	240
acctcctatt	cctgctatgg	gtttgatatt	tcttgggctc	cagggccact	gttgcatctg	300
gntgacagnt	acctcctagc	ccatancctc	ctatcttggg	aaacaaacct	aacaactacg	360
tgtaccttcc	atagatctct	gattgagctt	cagtatncgc	ttgctcatgg	gcgattcact	420
tgaatccgtn	attggtgcca	acaatcctga	ctcatgggnn	aatggatcct	atcacgttcc	480
cctgattngc	aacccctgta	tacatanatc	taatcgcata	gaatctagcn	tnggntatgc	540
gcggtacgc	tatcagggtt	tgntaactat	ngcatggcta	cgaanctga	tcatgatcna	600
gggtcatgga	ctcttatcag	gggggttggg	ccngcttct	ttttcnnacc	ttggtaaaac	660
c						661

<210> 625

<211> 181

<212> DNA

<213> Homo sapien

<400> 625

gcaacaatca	gatcatgtta	aagtaaactct	ccattgccct	ggatcacttc	aggatttaaat	60
tgtccaagga	gagcagggtt	ctcctgtgaa	aaaaagggtg	ggaaatgttt	gagagtaaaa	120
aatacaaaa	tcaaccggtc	gaaaatacac	cactccattc	agtgtcttac	ccccataagc	180
c						181

<210> 626

<211> 181

<212> DNA

<213> Homo sapien

<400> 626

gcaacaatca	gatcatgtta	aagtaaactct	ccattgccct	ggatcacttc	aggatttaaat	60
tgtccaagga	gagcagggtt	ctcctgtgaa	aaaaagggtg	ggaaatgttt	gagagtaaaa	120

aatacaaaat tcaaccggtc gaaaatacac cactccattc agtgctctac ccccataagc 180
c 181

<210> 627
<211> 813
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 627
accaagctgg agctcgcgcg cctgcaggtc gacactagtg gatccaaagt gaacgtgaag 60
gtgagcagag gagaacttgc gatggcaaag ttaaaaacaa gaggagatga tggctcttgg 120
gtggcacagg atgttaaaaa aattctcctg tccttaagga gttactgcta tttgagtaat 180
gtgccacttc cctacatagc cttctatgca gaaatgctat atttccactt cacaaccag 240
aacgtgcatt ttattttaca tttagaggag gaacaaacaa ccagaaggca aaaactggg 300
cattattttt tgcaattctc ttggaaagag ttcgttttta acttctgctc agacagcaca 360
caactactgg gaatatattt taatttcaaa tctgatgtgt gacatctggg aactcattta 420
ttgctaatag agttttcaca ggaagcagca gtcaccagta gctcatctta tttttcagtt 480
ggcaaagtgt tgtttacott ttattggcct gcacgggtgt ctcttatcac aggatattta 540
attagaaaac gcaagtagcc taacatagaa nagaaatgga gtggtagata atagtagata 600
gaatggctaa atatttttat tacagtgatg taatatcact gnaatttatg gttaaaaatt 660
atgtaatact caaaaggaa tctcagactg gcgaaacagc tggnaacag ctntcacagg 720
gctttnanct cctnttgagc tttccccctg ntggacttta gtcttccttt tacncccgna 780
gttnccattn nttaccaatt gtnccgggaa ana 813

<210> 628
<211> 646
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

<400> 628
tttggngngn ggtgtctcnt ttgggtggac tttttgggtc gtagggcccc aaggccgtta 60
atcccgtaat aacggaagac gaagaagagt cagaagagtg cttctataag gatcgggacg 120
agactacctt agaggaataa aggaaaaaag cagaggagga agagtggtag aaggagtcag 180
aagaaaccca cacgtcgttc tgaacctgga gccttatcaa aaaggtctag ataaacgata 240
gogatctcga tatcgagctc aagaggtagg tttagagact tctcgtcctc gagagcgaaa 300
tggaagatct cgacgacgat aagaagttaa agtgtagagg gtgcttgagg agcgcgtgga 360
aggattctgc ggagggaccc atcgacgtag agacttgaag gcctactaag gtccacaaga 420
agcccggctc tttctccgaa tggtcggagc gtacagtatg cgacgtcgat cggcagacaa 480
gctggcggtg gactcgaagt gttcgggcga atcgacttat aatagtcgag cgctagtaac 540
gtaggaacac gaagagtagt cgaaagaaaa cgttttagtg gggaaaagat tagggaaaaa 600
ggagaggctt aataactaag acacttggag cctaggccaa cgcgaa 646

<210> 629
<211> 617

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(617)
 <223> n = A,T,C or G

<400> 629
 gccccnccc ccctcctnng gcttatnngg acagaccac gtagtactct aaatcttctc 60
 ctacgccgga caacggaccc tataccaatt cgaatcttgg aactccgac cgccggattc 120
 tcttccccct tcggcttccc ctttctgtcg gtacccctcc ctagtcgtct cctacacctt 180
 cgtaccgtcg atatatagtc gccgcggact agcctattta ggtgtcctag actcgttatt 240
 gatccactca ttagtctagt actatgcgtc acgtatctta gttgcctaag agggagatta 300
 aatcctccac aagttccgac gaattcctgg actctcgtac tagcaaaact tcttatgagg 360
 cttccttgta tatcttctgg atgtttctcg tgtcccggtc ctccgctact actagagctc 420
 cttgccctat ctctagaagt agaggactct cgggttcggt ctccaaatct agcgctagag 480
 ctatcgctac ccgctcgatt cccccagcgg aatcttgaaa cctgaggtag tacacaaacc 540
 ctcncatct tccctcggtt gctccttctt ctcatcccc ctccccgctt tctcgggaan 600
 gaatctactt tancctt 617

<210> 630
 <211> 644
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(644)
 <223> n = A,T,C or G

<400> 630
 cnntcggent gggttttntt ctgagnnncc ccccccccc cccccccaaa cttacaccca 60
 ccaaacactt tccgccccct acctaggaga cattagaagg gtttaggctt cggcgtatag 120
 taaagtcctc tacctcggaa gtagagaatt cggatattta attcagggtt agaggctcgc 180
 tcgtagatt tatagttag gtttagaatc ggaaaccttc gatcttcctt agaagggtaa 240
 taagtgaggc cctaaatccg tctaaccaag gcgttaaggc ccgtacctaa acctagtctt 300
 atcttctatc aggcgcacca atatatagtag gttctacttt cgtataggcc ttaaggaata 360
 gttcggtagt tatcgaaggc actcctctct aggctaggct tttctcagtc ttagtactcc 420
 gggaccgtcg tcgcanaaat atcgatggac ggtaggtatc tccgcgttac gcgtcgggct 480
 agggatatag agcgaattat cggcgagagg cggtcgctan gaatcggtat caatatgntg 540
 ttctttaccc tacggatatc ggcagaaaac ataaaacctt ctnaccangg ataagggtatt 600
 atcggacccc taaaataaca gtaacattta gantactagt accc 644

<210> 631
 <211> 526
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

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<400> 631
cctcggtt ggggtttttt ctgagcccc ccccccccc ccccccccc cccccccggc    60
cccatagccc caccggnccc acccaaattt taacaaaata aatntacct tcntcacct    120
atccnctga tcnngtaggt cggtagcggg accgngatc ncnacgattn ttccgggtcgt    180
cnccttaan acggncctgt agcncctgga anaaatacta cgagngactc taatntagca    240
anaccgccc tcnattanta gcctccttag tcttccaatg ncgnggattn ngaatccttn    300
naagttatcg ggtagaacgg gtcccggtcc cccgcctct ttncaattaa cgcgggtac    360
aaantcgggt tctaaattcc ncacgaattt ngncggcaac attcncgggn ccttattanc    420
cntttccaac cccgatacnc nagctcgatc gggctttanc gaatccgggg tcnccccga    480
ngantcgggg tcttttgagt ngctctagga cggttacgac ggagga                    526

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<210> 632
<211> 647
<212> DNA
<213> Homo sapien

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```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n = A,T,C or G

```

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<400> 632
tttggngggc gggngctcat ttgggtggac tttttgggtc gtaggaacct ggtatgaggg    60
gtgttttgag tttcttcttc gtcgtctctg ggaggttcgg tttcgattga gattcgggtt    120
cgtctttatc ttacgaggca ccctgatatt gttgcgcttt ggtttggttg tggagagttt    180
tgtctactc tagcgggtca tgcggatgat atgtagcctg cgtggcctga tagtgatgtt    240
gtgagcttga gaggggagtt gtgggtgttg cgggcggagt aggaggggtt ggagcaccgg    300
gattgggaga tatagaatca taagtgttag gtataggtcg attgagcgag ttcgtggaat    360
tcgtgtggtc atcataatta gagtgaggat gggctctata tttcttagag gacgcacggt    420
cgtgattcgg ggtttgatgg gtgttcttct tgtgggcacg attagcttgt tcatgatggt    480
aaggaccata ctgtttcgaa tgaggattcg tgtcttcgga ttgttggtga tattgtggnc    540
tanactatct agtgtaagcc ggaggtggtt tgccgtggtg gagtatccga nnttcattcg    600
ganggtatgc gtgcggagcg gtccttgtag acattccgga aaaatgg                    647

```

```

<210> 633
<211> 630
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(630)
<223> n = A,T,C or G

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<400> 633
tccttcgggt tgggtttttt tctgaccccc ccccccccc cccctcggga aggcctctag    60
gtcccccccc gtctctctaa tcctcaggaa ccgatccacc caaccaactt actaatgtcc    120
tacagtaaac acccgagaat ataaaccac acctaggcct ccaatcctac cagggaagca    180
agaagccgta gtctagcgta ttacgaaccc gagatagaga cggagatact tagttttatt    240
ctctcggaat aggaaagacg actggggagg gaatataggc tagcgcgggg ataggggcta    300
tggcggatat gggggcgggt cgctctctta ttcttctata ccacgtcaat aggaatgtag    360
atatacctag atgttcccggt agaaagagac gttagaggtc tccgaagcta taaaggagag    420
gcgcgaagaa acttcgtact ctagctttat ataggtagtc gctctagtc cataagcgac    480
gagagatcta ctagatttcg gtatcgccgt cgtatgtatt cgaaatagtc ttcttccct    540

```

```

tttcgatctc ctctctatac tacatggnga ttatagtcnt aagatagtca ggatattagg 600
atattagtta tatgacgttc gacgggacgg 630

```

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<210> 634
<211> 647
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(647)
<223> n = A,T,C or G

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<400> 634
centcggtt gggttttttt ctgaccccc ccccccccc cctccactaa gancttaacc 60
caaccctata gtttactcgt ataggggaat cgaggagaaa taggaacgaa gagcgggtga 120
taaagagaaa gtactttcct ttatatgtta agagcttagc gtaatgactt tcgttatatg 180
gctagttgat tttatccggc gttatagggc ttagttctgg ttatctcggg tctaattccc 240
ttagtatgct cgggagttta acgaggtcac gggatagcgc gtaccctttc taaggttcct 300
ggaaagctat tcgttattta tcgcgattct cgaggtcgaa aggatcaagg atcttccctt 360
ttactaccct agtcgggtta gcggtcggtc aaaactagt tagtaccttt acctcctcga 420
aagttatagt cgaaacaacg tattagtcca aattatagcg gatagatcga gacggttcct 480
tctcgggttc tcagccggta atccctctat ttgggggtct tctccctctt cccctttgtc 540
ttcgcctta gcttccaagg ttctcggaa gcgaggggtt ctacttaagt cgntagcgtt 600
ccttataaac cncctacagg cagaccccc tgtaaacggc tcgggggt 647

```

```

<210> 635
<211> 645
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

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<400> 635
ccttcggctt gggttttttt ctgagcccc ccccccccc cccgaaactc gccttacctt 60
agatacccaa agaatagttc cactcaactt cgtctaagta aaactctaga acttccaaac 120
ataaaagact tcgcgcgggt agctacacag cctacgggaa tctcacgaat cccgattcaa 180
gtccactct cgaccacacc ccggtatcgt cgttttccca taccaatgtc gaaaaataaa 240
ataaaatcca gtcaagcccc acggttaagc ggggtagggc taggcgaaga ggcaggaacc 300
gttcgaggcc gggggctttc aaaatacaaa acaactactt aaagtttacc ctttctaaag 360
tcgggggcaa cggttaaagc acgcctctaa agtactactc gtttcgagaa ggggtagtca 420
tctccgcgat agagactctc gcgtatatca actcgcacgc cttctagcat tccgacggtc 480
gcccgcggct acatatcttg cggattagct ccgagggact ataggggtta ttagtctagt 540
aaattctctt agaggatagt cggggtcgta gttaggcagt acgaggggac atggngctgcg 600
tcgtgctcta ccttgacagc atactcttat aaacatcttt ttctt 645

```

```

<210> 636
<211> 643
<212> DNA
<213> Homo sapien

```

<220>

<221> misc_feature

<222> (1)...(643)

<223> n = A,T,C or G

<400> 636

ccttcggcgtt	gggttttttt	ctgaccccc	ccccccccc	cctagcggaa	aacaatcccc	60
accgagattt	tattaatcgt	aaaactcgcc	ttcggtacca	agtcttcctc	cttcccgtaa	120
cctggctccc	tcctagnngc	tttacgaacg	tcctctctct	tcttacggct	cggaagtggg	180
tacggttaaa	tccggaggng	gggctaacga	atccaaggct	aactcctctt	anagtttggt	240
gtccnncngt	ttagtaagga	tccgtggagg	gcgagtattt	gncccccggc	ctttattnta	300
tagttcccta	gtacgataaa	gntaccggct	atcctattac	agcggataaa	agttatttan	360
agggccgacg	tcnccgctag	acaggctaca	gctagnngag	gtaccgcctc	cgactantcc	420
gttgnttccg	acaaggnagt	ttcggttaac	tcacaaaact	cctccgccga	ctctanggtg	480
gggacggcag	ttccnncggt	tagtgtgcgt	tatagagaag	ggcatttgag	ttggacgtta	540
cnttttaaca	taggtttattc	cgttttaggtt	cttgccgggc	cgtgggggta	gtncnccggc	600
gcgttnntat	cggcgatttt	cgcagtttcc	cgtttccggn	tnt		643

<210> 637

<211> 631

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(631)

<223> n = A,T,C or G

<400> 637

gggttntctc	atttgggtgg	actttttggg	tcgtaggaac	cggtatgnag	gagtaggagt	60
cgctgggaag	actagaagtt	agctacggac	gattagtgtg	attccactct	taataacgag	120
taatcgttta	cgtcgggttg	gtgtttcggg	gttttgagag	gtaagcgtag	ttgtggagtt	180
tcgcataatg	gtccccctac	ttcggcgatc	tcgtcttctg	tcggttaggt	tattattggt	240
catecttcgc	attagtagta	gggttggtcg	gataaatcga	tagctattct	ttagaattcg	300
tagtcggaga	attcgtgtac	gaagtccttt	aagttcttta	agttcgcgag	taagacgtgt	360
acggttattt	tgtcgtcgac	gtagggtgtcg	tttacgggag	tttcgtttta	ggggtttacg	420
tagaacgtta	ttaagcacgg	taatacgata	gaggattacg	cgacgtattc	gtcttagaac	480
gtcgattttt	cgaaggcgca	tttgttatcg	aaggggagtc	cttgagaaat	cgagatatcc	540
caagaatatt	acggagatta	cagatcgga	ggctcccag	atcggacgta	ttaccggtct	600
cgcgcgaaac	gagtaggtat	cntccggata	a			631

<210> 638

<211> 606

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(606)

<223> n = A,T,C or G

<400> 638

ccccccccc	ctcaaccatc	nattccccac	ctcaacgcga	attacggttt	cgaaagtcga	60
caataagtc	ggtcgagtag	agggaatcag	gggctggtan	aaaggaccac	gggcggaaaa	120

taccggtctc	cttccgggga	gcgacgtcgg	ggaaaggga	gagagcggtc	tagttcgtag	180
gcaaacaggt	cagaaaagtt	aaggttaaag	gtcggagggg	agaggatagc	tagtacgctt	240
agttcggggc	tcgggcgcag	ggccactttc	ctctttcgcg	ttcctttact	ctgcttacga	300
gttcaggctc	cggagttccg	cgccggaggt	cgtcgcgacg	ctaggaatgg	ggactcgctc	360
agtccccggt	tatccttcgg	gattctatgt	tttcgccgat	agacggagac	cgggtagtag	420
ggttccgctc	taccgccact	cgtcgccttg	atccggcccc	ctccgcttaa	gggcgatgaa	480
agattaggta	ttagggctct	acgggacgag	gcatagggcg	ggagaagggg	ggaggggtcg	540
ggggtcgaag	ggantaagaa	atcgcantcg	cgcggggtcg	gtagganccg	aaatttttct	600
cnnctg						606

<210> 639

<211> 592

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(592)

<223> n = A,T,C or G

<400> 639

tcnctcggt	tgggtttttt	tctgagcccc	ccccccccc	cccccgggaa	cgagaaaaca	60
atcccaccct	accgcgggga	gtgggttgna	cgcttagttc	tagaatcttc	ggaatcgtec	120
tcgggcgttg	gtagttccgg	cgattccgag	tatgccgaag	tgtatcgctc	cgtctagagg	180
ttgggtatctg	tttatcgcca	tgacgctatt	gactcggatg	ctttcgaagt	agggggatag	240
gcgcatagat	acgcctccgc	ggtgtcctct	gaagtggccg	catccgtgga	cgcagcgtag	300
acagctctgg	tggacgataa	cggcttctcg	tactcctact	ccggctatta	tgtagagag	360
gacttgtttc	tgaacggata	taccattagc	gaaggggtac	cctccgctaa	cgcaggcggt	420
tctaacagtt	cttccgggcg	ctccgaattt	agattgacgc	ctccgcagca	ttgtgggatc	480
ctcttcggtt	agccctcttt	ataggatttc	tcctccgccc	cgaaagangg	ctggtcgtec	540
cggcangta	tgtctagctc	gaacgctttg	ttactccttt	gttttcgaaa	na	592

<210> 640

<211> 637

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(637)

<223> n = A,T,C or G

<400> 640

ctttgtggcg	gtgngtgtct	catttggttg	gacttttttg	gtcgtaggct	tatccgggtn	60
gggtcccga	agtagcttag	gatcgccggc	tagttccggt	cccgcccgtc	gaaagcgcg	120
ttcggcgggc	ggcccccggt	tcgttcgcgg	gctttaccct	catagagtgc	caggtctcgg	180
ttcttacggg	ttcgctcgcg	atagatttta	cggcgagagg	tcggtatctt	cgccgcttta	240
cgttcggtcg	gcatctacgc	ctagttcaca	ggtagtttat	gcgccggagc	gcgtgacgga	300
gaggttatac	gggacgcgga	agaaccgcct	ccaaatgact	agtacaggct	cgttcgggcg	360
tagatctcct	cgctcggtcg	gcggttctta	cttctagggc	cgctctacgg	tttaaggcgg	420
tcgttagatc	ttagaaacta	tactcaagtt	tcagtcggaa	gaaaggaagt	agagagaagg	480
gtaaacgatt	acctccggtt	ctagcccttt	ttactcgcat	aacgggagaa	cggggtccgg	540
ctctcagata	cgccctcgca	gacgtcgcca	ttcaacttta	acctccgcta	gggcatccgt	600
atacggttaa	cgcggtaaaa	gcgacctcgg	aaacctc			637

<210> 641
 <211> 649
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(649)
 <223> n = A,T,C or G

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<400> 641
ctntgtggcg gtggttgtct cagtttgggt ggatttttgg gtcgtaggna acctggtatg      60
aggtctagtt tcttcaacga ttcttggttc agttacgcga ccctatcctt atcttacaat      120
gtcttctaca tcaggttcat caattaatat atcaattaca cattaacgac ggtgtgacgc      180
aatatgagaa agtatacatt aaggttatta tatattattc gcttaaaaag gttcctgaca      240
tgggacaact tcaccaccca ttctagaagc cccccctcct gtaggacccc ctcgagttcc      300
ccattatctt agttcagttt tcatttttta accaggaggg tatcggtttt taataggtac      360
tattttgtca aacttttcag aagctttatc ttcaaataata cttgcaccat ctgtactagg      420
agcactaact attcgagtct attacagctc aacagaaaat aattgaaatt aaacaaccta      480
agtatcgctc accataaccc catcgggctc tcacccatt tcttcataag ttctagagca      540
tcctgagctc tttcctatta cccttgatgg tactcatggt ctaatacccc ccgcagttat      600
aggtccttat ggatcctatg ctaccaccgg tctaatecct tctatcacn      649
```

<210> 642
 <211> 645
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(645)
 <223> n = A,T,C or G

```
<400> 642
tccttcggct tgggtttttt ttcgtcgcgg gttactatta tcgattgtta cttgtaaagg      60
cgatactccc accgctcacg atattagacc tgctcctcta gaagcgaacg gcgataggtc      120
tactcgcccg gcgaagacgg cgaacgggta ggaggagcca tatgcaaccc taacggagat      180
tataagtact gggaaaaata ctagtattaa ggtagcgggt taagataggt ggagagacac      240
tattcacgag cataagcact tagaaggtct tctcgaggag aggtaggcta cggactacgt      300
tccttcttcc tctagcctcg agagggagta tagatgattc gcaaaagaga atccctccta      360
tacgctggca taactagacg acgcgtcgtc gggaaatctc gccaaccceta ttgcgacctc      420
caaaaggaag attgtcgttt catagaacgc taatactccg ggtcttcccg aatcatagcc      480
gcatatcggg aagaagacgg taaaatcgcg cgattctaac aagattctgt agacttaagg      540
ctaagcacta gaagcgatct cgattccgga tcttaagatc atactaatag ttcggtcaca      600
ccagacgacg attagccact agaagcccta ctccgtngaa accgg      645
```

<210> 643
 <211> 586
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(586)

<223> n = A,T,C or G

<400> 643

ctttgtggcg	gcggtgtctc	atttgggtgg	atTTTTgggt	cgtaggaacc	tggtatgcag	60
ggtccgcccc	gaattaaaag	cgggatcccc	aaaacgnngn	ttcgcaagaa	gagaagaatc	120
atagcgatag	ancTTTcata	gtacaaaggt	aactaagagg	aaaataatgc	agattcagaa	180
ctagttgccca	aattagaact	cgattaggcc	aaggatccga	gcctggcgct	atcacttcgg	240
gacttaagct	acggtagagc	agtcggtcct	gaagcatagc	tcccgtagga	cgtaggaaac	300
tagtccggca	cggaggacat	actctcgagt	ctcggaacgt	ctatttagaa	tataaacgca	360
ttaacctcag	aaggcgccga	cgcggttact	ctctagggaa	ctatttcatt	ccttccggag	420
ctccccattt	tttccaacac	atataccggc	aaaggaaaat	cttntgtcct	cggtctaaag	480
agagggaaaa	aaaacgatat	ctaggttcgg	gtttatccat	ttaaaaaanat	ngacgcgact	540
actccctttc	aaaggggagt	tccccctagg	nagagttcaa	cngaag		586

<210> 644

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 644

ctttgtggcg	gtggttgtct	catttgggtg	gcatttttgg	gtcgtaggaa	cctggtatng	60
agggctatTT	gacttgtttc	tcaaattcca	tggtatgggt	ggtggcggtg	gggggtggcg	120
tgggttcggc	gggggtgggg	gtcgtcctcc	aaaggagttg	ctagagggct	tttagtgggt	180
ttagggcggg	aaggggttag	agcggagaga	cgtcgtcggt	gaagcttctg	gcggagcgcg	240
agaaggtagt	tagcgccggt	tcggaagatt	ctcagaattc	gagaagaggt	agtggggcgc	300
ggagagagag	tttctaagtc	taaacgtaga	ggtcgtccta	gtcgggcccg	gagtagcttt	360
taagctagag	gtcgaggtcc	tcgtttaggc	tccgggctct	tccgggcagta	tcctctttct	420
cgaggaacgg	agcgaccgac	gtcgtagccg	gaccggtcta	tccgtacgtt	tagagatacg	480
ctcacctcca	cgggcgtata	tgcccgtata	cgtataaacg	cgtaatatatac	tcgcgcgtaa	540
aacacgtata	cactatatac	acgcategta	cggaccgtat	agcgttatatac	gcgcgcggtat	600
attaattttac	acttatatac	gcgttaaacac	gatatatcac	acnccg		646

<210> 645

<211> 654

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(654)

<223> n = A,T,C or G

<400> 645

ncntcggt	tggttttttt	tctgaccccc	cccccccccc	cccccggtcg	acaacgtgcc	60
caccgttgcc	atcccagcat	agctgggttcg	ttctgtttta	ttcttagtag	tttagttcgc	120
ctatagtccc	tcgtctatcg	tctatcattt	aaggaggcgg	ggctcgctct	ttagggcggg	180
tatcttaggt	attcttctgg	tttcggctgc	cgtctcggag	tctggtcctt	ttgctttcct	240
ttcttggtcg	aacttcgtgt	ttgatcgcgt	tgtttctttg	gggtcgtcat	acctaagggc	300

cacttcgcca	acaaacaagt	ttgtgtagtc	gtttctatta	gggttcgctg	gccggcgctc	360
ttactgggtg	gcgattttta	acgcgttttg	ttttaatttg	cttcctcccc	tagggctcgc	420
tcggtcttct	ctctgttcgc	tgctctcgtc	cggccttttg	tgcggggata	gctccggcta	480
ttancgtgcc	gtgtccgtgt	ggnttttgtc	caatgtgaag	gcctaggggt	gcgggcttct	540
ttggccatgg	nttccctctc	tgtgancctt	aggggtaacg	antcgttaatt	naaggtcggg	600
ggttggnata	cgttntangg	gangcctgng	tccgntattc	cttgtttttg	cctn	654

<210> 646
 <211> 645
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(645)
 <223> n = A,T,C or G

<400> 646						
tccttcggct	tggttttttt	tctgagcccc	cccccccccc	ccccacgcc	aagtacacag	60
acccacccaa	aacaacgtca	acacaacttc	gggtatacgg	accttaagag	agaccccgtg	120
gtagacccta	ccacagccat	ccaatagtca	aacaacaagg	gcgcacccaa	tccatccata	180
gagctatcaa	acaacggagg	ggaaaggaaa	gagcagggtc	aacttagcag	agatcgaagt	240
cggcactaat	tcctttcaag	tactcgctcg	gcttgtagtt	cggggtaaaag	tccgctctca	300
aagggccaac	gaggttttta	agcgaccccc	gtatcgagtc	ttcttcgtat	tcattaaggc	360
gttaaaggta	cgagacctag	aagagagtag	aattagccca	ccaaatcgcc	taaaccggca	420
aaaacgacca	aaagtcaaag	acccttataa	atatcacctt	aaaacgccaa	ccccaaaaac	480
gcgatcagta	acgcacgtac	ctttcccaag	cttttctttc	tttcaactctc	caaaacaaac	540
ccgaatattt	agcgcaaaaa	atatccgagg	gagaattaga	agctattacc	cgaaaaaaaa	600
ncgganangg	antaaatngt	ggggaatana	cgtttggttt	ttctg		645

<210> 647
 <211> 753
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(753)
 <223> n = A,T,C or G

<400> 647						
accttacctg	gtaccggggc	ccccctcgag	tttttttttt	tccaaataca	actcagattg	60
tatacgaaaa	gctgataata	cattgacttt	tgctgtttta	atcccttgag	cctttgataa	120
tgattttttt	tgtgttaaca	attgtagtat	ataaaatcgg	attcaccatc	cttctgatgc	180
catattgatt	agtttgattt	tatggtgatg	ggatcattgt	gtgttaactg	tattaagaag	240
aaatggattt	gattgacttt	gcatccattt	ttatctgtgt	tactttcatg	ttttatttta	300
aagcattttc	ggaccagaat	aagttaagtg	gtataatttg	ctttttacac	gtttatataa	360
ttgaagttag	caatgtggca	aaatctctaa	tggaaataaa	atgcttcaga	atgatgacat	420
aaatctgagc	tattttcttg	ctggagaaca	agtgttattc	ataataattt	aatagcttct	480
gagggtgttt	gttcatgtga	tgaaggctta	tccaccttgt	atcaattcat	gggctctgct	540
ttgtttaaat	tagtcagggt	gttaataacna	gacttaagag	tcatectact	gtgataagtg	600
gtgagtgaag	attacatgtc	ttangaaaaa	tatactggga	atatctctga	cattaatggg	660
tttaaatgtt	ttaaggctag	gggatgatgc	aatgganaan	atncttccaa	angtttctgg	720
ttgtttatat	ttgnngaagn	catnaagana	ccg			753

<210> 648
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 648
 gatatcccgg ggaaatgcgg aggcctttng gcttacgtgt ttaccgcgta gggcaaagcc 60
 ttgncaaatt cccggccagc ggagcggcga gggtagggac tcacgggaag ttaaacagcc 120
 tcgtcggcgt cctcgaggct ccaaaaccag gctctaggcg gggacgactg cagccgttat 180
 ggaggccacc gcggctacgg ccgcggctga ggctcccca ggtggagcgg tggcctggag 240
 gggaatcttg atcctgggcc agccacctgt caagaggagg cggagcgtca tgcctctgga 300
 agactggatg aatattctcc aggagcctga cgaaggcgaa gaagtctttg cagaggaaat 360
 tgaatgctgt ctgatgctac aat 383

<210> 649
 <211> 349
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(349)
 <223> n = A,T,C or G

<400> 649
 cgattgtnta cnagtcttag agtaagctta agntcgttac cgagctcggga tccactagtc 60
 cagtgtgggtg ggaattccat tgtgttgggt cactagtaaa tggatttagc tagacanagg 120
 anatttacc c tattccattt agcacagtga gganaggcta nacagctagg atgcaataaa 180
 aaaaatttta atgagaaatg tgtgtggtag attaatctta ttaatctcaa gttatagatt 240
 aaaaatttta agtaccncat aaatgccatt tgcctttgct aangntacat ttttatgaan 300
 aangaccntg catacnaat ganatactgg actttnggna cttgangga 349

<210> 650
 <211> 306
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(306)
 <223> n = A,T,C or G

<400> 650
 cattgtgttg ggagcatcct tccatcagct cccatgagaa attctctgtt gggtttaagc 60
 aatccccaaa tatatcatat tgacatgaat atatcatctc ctcaatgtcc agcattagca 120
 gacaagatga gtgctgaaga tgatataact cctacctctt atgtaggcta gaggtaaaagt 180
 ctggctctgc tgactgtggg gacataccga aaaggaatgt gggttaatat cagangacct 240
 cctgagat ccganantca gggncctggac tttctgggan aggaagcnaa aagttatntc 300

tgaacc

306

<210> 651

<211> 769

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(769)

<223> n = A,T,C or G

<400> 651

cattgtgttg	ggcaggggtca	tttctaaggc	atgggctgga	agcttttatt	taaaacttta	60
catgtcttag	aagcactctg	gttggtgcta	ggcagacaat	tttacatctc	ttgctatacc	120
agttgcatga	agttcatcat	gcatattggc	tgtggaaaac	cttaacagca	tcatgtcata	180
aggtttcagt	aaggtttaaa	tgaaatcatg	tattaagcac	ttagtatagt	gcaccttaaa	240
tgttagcttc	aaaacaatga	caacctaact	aatggtgaaa	gaagcttggtg	tttgtaaatt	300
atgtcttatt	gaaagatgtc	atcaaatacct	gttatttcta	atcccttaaa	gtctctcaat	360
gtatttcttt	ttgccataatc	caatgacagg	accttagttt	aagccagtgg	ttctctcaac	420
ttctaatacca	gagatacctg	ggtgtcccga	agaccttttc	agagcatcct	tgatgtcaaa	480
accattttca	taataatatt	aaaatattat	ttgctcattg	tactcttatt	ctctcccaaa	540
tattcagcga	gttttccaga	agctatataa	catgtggtaa	catcttatca	ctctgacgat	600
taatagaata	tgngnttttg	gattcttgng	tttaaaattt	tctcactttg	gggttctaatt	660
atggnnacga	ttaatagata	tggnctccat	gaccagangg	ctttaaagca	ntcaataatt	720
tttaagagac	taagnactat	cctttaaaga	tnngnaactc	catcttaatt		769

<210> 652

<211> 267

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(267)

<223> n = A,T,C or G

<400> 652

nnangccctt	taaccattgn	ggcctccacg	cnntggcggc	cgctctacaa	ctagnggatc	60
cgcnactcta	gnanaangat	tggctcttnt	gggntgggac	ggncgggctg	gggcgttaag	120
cggggctggg	cgcgcgccgn	ggttgnaacn	ggcgccgccc	ccncacacn	cccggagcac	180
cctcnttgcn	gcctncccc	gtcaccccc	cgcgcgccgn	tccgcttttt	ccncacccan	240
agcncntttt	atctntgtct	cctccgg				267

<210> 653

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 653
cccnttnacc cattgctgga ctccaccgcg gtggcgggccg ctctanaact agtgggatcc 60
ttncnatgag atngcggang gaggacnnat ttgctatnct ggatggggct gantcntnta 120
gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg 180
cncatcctaa aanncanctg ctgtnttcag agtacgcgac acatcatcnc tnatgcattg 240
ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat 300
ggacntatca ccntanaggt acanntnccg caccacacac cngcttgcn cctgacgctg 360
gactggatcn cttaggccac caatnccccg ttnccacat ncctgggacn ctananatac 420
tcganggggg gcccgggtanc caattcgccc taatactgag ccttgntacg nacgctnact 480
ngngtcccta ttanaacgtt g 501

<210> 654
<211> 710
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 654
gcgncctttan cncatgctgg gctccaccgcg gtggcgggccg ctctacacta gtggatccca 60
aactgagtc caccacagna aaactcanca ccaggcagac cccacaactg cagaatccag 120
gctgcaattc acagactaat cntctagacc cacctcagta ccagatggta ccacacagct 180
caaggnttta ggtttgcgtg gtanactcaa tctctatctt tcaccactgc cagcctgact 240
tcagagatcc tngnctctgg acagtctca gtggcaggca actctcagga gcctcaggnt 300
tttggcacat cccagnacca gccagctgcc acaggccctg accttntanc aacactgccc 360
atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag 420
gtgcncctca aanctgtgcc tgetgcagna ngccccacgt ctctggcatg ccccaatgcc 480
atngtggna acanttgact tctgggcatg ntggaattcc ctaccactga nectgaccat 540
aggnggganc ccattttttt cgaggggggg gcccggcccc caattccncc ntatagnag 600
ncgtanttac gcgcnnctta ctnggcngt ngtttaacaa cgtcnntgan ctggggaaaa 660
cccctggngg cnacccaaat taaacngcnt tgcannacat ccccttttcg 710

<210> 655
<211> 202
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(202)
<223> n = A,T,C or G

<400> 655
ccccttttnc ctttcanccc ccccgttttg gcngccgcen acacctactn catccaccca 60
cantcgacca cccgagcttt ttccgatcc cancatcnat gcngattttt tctntgcntg 120
ctngnccctgc acctttgnta ggtcaagcct ggcccatctt cgacaacttc ctcatcacca 180
acgatgagggc atactctgac ga 202

<210> 656
<211> 308
<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(308)

<223> n = A,T,C or G

<400> 656

gctgntgaaa	gaccacacccg	aaaaactctn	ctttccgact	tccacatgat	gacngcatg	60
tggtggtgag	agacttatca	tgacgacatc	gcttccnacc	atcgcanccn	ctgccaagc	120
ccattcatgg	aggcctgggn	antttctgtga	ntgacntnga	cncatanacnc	tnccactgtn	180
tgctatccag	acttgnttng	aatatnttat	tggcnaaaana	canttnccgga	atgctgtgnt	240
tgnnccattga	angatctgat	cactatgaga	gggtgaggac	nnctgctng	ctggcantnt	300
ntaacccn						308

<210> 657

<211> 696

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(696)

<223> n = A,T,C or G

<400> 657

accntttcca	caatnctggn	ctccccgcgg	tggcgggccgc	gtcgaccagc	aacctcagct	60
gtgggtcttg	ttacagtaat	gagttactgt	aaggaaagtg	tgacatttcg	agcaatttga	120
tttgtttaaa	aactagagca	gtttcagggt	tttccttgta	aatctgtctt	atgtgtcttc	180
aatgttcttt	cttgaggagt	agagaaagga	attgttagga	atgatgcata	aaccatggct	240
tattttatct	cgtcgccacc	cataatcaga	gcagattctt	gggactatga	ccctcatgga	300
gacatgacaa	ttgtgtgtgt	ggtgggtggg	agaaaagagc	tgggaatttt	tagggtctag	360
agggccaat	caggactatt	ttatggagct	ctgctcacca	actttaagtg	agcaccaggg	420
gtgngaaagc	gaatcttggg	ntcaaaaana	caatggnaag	gggtaagttg	gtatnctgaa	480
ctggccactt	cggactctta	tttaactggg	tattctcant	taaggaggcn	nggggtggtct	540
tggcttgtna	aggaaaagcct	gtgcaatgga	atgactttta	aaccccccat	taaaaaaaaa	600
angntataaa	tcttgggtct	taanaangaa	gcctgggttc	tnttanccca	ttttnccccc	660
gggaaggnaa	atnttcttag	gnaanggaag	ggaagg			696

<210> 658

<211> 698

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(698)

<223> n = A,T,C or G

<400> 658

ctggactccc	cgcggtggcg	gccgctctag	aactagtgga	tccgtgttgg	ctcaattctc	60
aaggctgttg	ctgtgcggcc	tgttccccac	acgtgctgct	cagctcaggc	aagcaccgag	120
cttgtgttgt	ttcatgctca	gcgtggaggc	ccctcctcca	ggcgcgtgct	ctgtgggggt	180
cccatacact	caggctccta	ggaggagtcc	atttagaaag	ccagggtttt	tctcagagtc	240

ttagtccctt	gtgctgtcat	ccatttcaca	cgacttgggc	cctgctcggg	gcaacacagc	300
aagagaaaag	acagggaaaa	taagagaggg	accttgccaca	cacacgctct	ggaccacaga	360
gccctgtgcc	cagctcctct	gtcaatacag	gtggaatctc	gtgcaggatc	gcaggggtct	420
gtgatgccac	caaagagcag	gccgggacag	ggttaggaga	gaaaggagag	ggaagtgggg	480
gtttctccta	cgcactctta	tttgagaggg	gaaaggcggg	tttgatttgg	ggttgtcggg	540
ctttgcaccc	acngcacagt	tgtgagacac	ccccatcctn	agatcaaagc	cccacataca	600
gcttggggaa	aaacaaaacn	aaacaaaaca	aaaacagtaa	acctccatgc	canttgttgg	660
gnaagttttn	aatttntctc	cccnacccan	cttgcttc			698

<210> 659
 <211> 750
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(750)
 <223> n = A,T,C or G

<400> 659	
ncaanctggg	ctccaccgcg
tggaatcttc	tgaacatatg
gaggcctaag	aatgntatct
gtgggcactc	gtaagcttgg
ccatagatga	attaaaactg
aagtcttttg	gggtcccaag
gccccagact	ccaaactttg
ttccaccttc	ttttccanaa
ttatccctta	aaaacctctt
acctancatt	cnctnttttc
cagcttggcc	ccctacaatn
ttttntggcc	cctgactttc
aaggggttat	tttccttccc
gtggcgcccg	ctctagacta
atgaacattg	cttatgaaaa
atggctcttg	tttgcttctg
tctcttttaa	tctaatacca
gcgtacttct	tgtttacaag
tcaaaaagat	gagggattta
ccaagaggct	atcaaaaagc
tccagacagt	acttgaaagc
tcctctctct	gcttctacta
tgacttnngt	tggttacatt
ctgccctaan	gaaattttta
gctttccccc	angctttgcc
cttttggaag	
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	660
	720
	750

<210> 660
 <211> 849
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(849)
 <223> n = A,T,C or G

<400> 660	
tgggatccac	tagtccagtg
tgcntntcta	aatgtttataa
tagaagagtt	tgtagctaac
ttaattttaat	tttgattata
aaatgacaat	ttcttcatgg
tctgaatata	tgtattactt
atgtgatttg	tttagtggtg
gttaaataga	tactgaagct
atggggaatt	gggaaagaac
cgcgggcccg	gtcgacgggc
cagaaagtta	tgatcataca
gttgaaagtg	gttttcatgt
agttcaggta	atttttttgt
tcactcatgt	ggagtagttt
aaagatgtga	aattactaag
tagctccttt	gacctaagt
tggaattgata	agaaaaaagg
ggaaaaggag	agagcaacag
aacagaatta	
	60
	120
	180
	240
	300
	360
	420
	480
	540

gtaccacagt	gccgaagtgc	cacctcaggt	acttccatct	cccatctcct	gaagaattca	600
gtaacagttt	gcaaattggc	aacacaatca	tttagtgatc	ctggttgata	ttttcaatac	660
tttctgggga	tttcttggct	ggnttcaaaa	gatgatgctg	atagttttat	tgccccctgaa	720
ggtattctga	agnttancat	aattttattg	tcagtaaaat	atttgaataa	aagngganga	780
aggaaaatct	ggcntcttat	tttgggatnt	cngcnggggg	aangaggata	taattnacc	840
cggccttgg						849

<210> 661
 <211> 653
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(653)
 <223> n = A,T,C or G

<400> 661	
aacttaagct	60
tcgacctcca	120
ggtttctaag	180
tctttaacat	240
tttaatagat	300
acttgtttga	360
atattccatt	420
agctacttca	480
agataacct	540
gatatagtag	600
cnaaaggag	653

<210> 662
 <211> 646
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(646)
 <223> n = A,T,C or G

<400> 662	
aaacttaagc	60
cgtcgacca	120
aanagcaaca	180
gttgagctct	240
agctgttttc	300
ctggcagctt	360
tgtecgccac	420
tgcttgccct	480
ctcccagang	540
ncctgggcgt	600
gaattcaccc	646

<210> 663

<211> 650
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(650)
 <223> n = A,T,C or G

<400> 663

aacttaagct	tggtacccga	gctcggatcc	ctagtccagt	gtggtggaat	tcgcggccgc	60
gtcgacgtcg	acgcggcgng	ccgtttcgac	gcagttgata	catattatta	tatactacat	120
nggttttcta	gaattaaaaa	attaatgtgt	agtgccagcc	ctagatgtaa	gttacatata	180
tcaactctat	ccaattttgt	cagccataaa	acttaccttt	ttcacatact	tctaactcta	240
acaatgtgag	aaatgtagat	cattgcaatt	ataccacaa	ggcagatggc	tacatgcaga	300
atggatagca	gaatctagct	acttacgcta	gccacatggt	agacgttttt	tcctttgttt	360
ttgcaaaaatt	gcaatataag	ttgcatatcg	ttagagtga	aagatgtaaa	gaacccatag	420
aagccagtga	tgaaggacat	ttatattttc	acctttacaa	angaccttaa	aattgcctat	480
gtggagcaga	aactggagga	gggcnaancc	atcngtaaaa	aaaattttgn	tnctatttgg	540
atttgggcac	cattattacc	tccccaggtn	cctttttgnt	ttaacctttc	ttttaaaaaa	600
aataattcnt	aatttttggg	caaaaaaaaa	caagggtttt	atttaaattt		650

<210> 664
 <211> 678
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n = A,T,C or G

<400> 664

taaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	ggggtgtagt	60
actcatcana	gctaaatgag	agcgctttta	aaatgttagt	ttgtcttccg	ccattttctac	120
agaaagctgc	aatttcagggt	tttcaacctta	atagggtgata	tttaagaaaa	aaaaaaagca	180
atcgcaaata	gccccactgc	ttttacaaat	cattttttct	cttctaggta	tagcctgtca	240
ggtggcctaa	tgtaattttt	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc	300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	360
agcaaaaacta	ggcacgattg	aaatcaanat	cttttaggca	agaaagtcac	gatgagtttt	420
anaattattt	taggactctg	tggctttctc	ttcatagaaa	tagaaaaaaa	aaattgtata	480
aaaaccacaa	aaggtcctga	atagcccaaa	gcaacactga	acaaaangaa	caaagcagga	540
agcaacacac	taccggaatt	caattatact	accaagggtg	antaaccaa	acagcattct	600
attgggcata	aaatagacca	aagaccagtg	ggaaacagaa	taaagaancc	caaaataaat	660
cctatatatta	cngccnc					678

<210> 665
 <211> 694
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(694)

<223> n = A,T,C or G

<400> 665

cttttcaa	at	cattttt	cttctagg	ta	ancctgt	ca	ggtggc	ctaa	tgtaatt	ttt	60	
gacatct	cta	ngaattt	ta	agaacc	aga	aatggg	tgcc	agagata	tg	ctgcact	aat	120
cttaagt	ggg	gatttat	gta	tttctca	agc	aagtga	ttaa	agcaaaa	acta	ggcacg	attg	180
aaatca	agat	cttttag	gca	anaaagt	cat	gatgag	tttt	agaatt	tatt	taggact	ctg	240
tggtctt	ctc	ttcatag	aaa	tagaaaa	aaa	aattgt	tata	aaccaca	aaa	ggtcct	gaat	300
agccaa	agca	acactga	nc	aaaaga	acan	agcagg	gaag	caacaca	acta	ccnga	attca	360
aattata	cta	ccagggt	gta	gtaacca	aaa	cagcatt	cta	ttggca	taaa	atagaca	cca	420
agacca	atgg	ancaga	ataa	agaaccc	cac	aaataa	aatcc	atata	atntac	cgccan	ctga	480
ttatca	ataa	cnaacac	caa	gaacata	atnt	taaggg	acnt	nctatt	tcaat	aantag	tgc	540
ggnaaaa	act	gggaa	tcca	tatgcag	aaa	naatga	aa	agaccc	ctat	ccctcac	cat	600
acgcaa	annt	caacttc	gga	atggg	attac	aaaact	ttaag	acattc	caac	ccaaga	aa	660
atnaaan	cta	ctatta	agaa	aacagat	cnc	nccc					694	

<210> 666

<211> 705

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(705)

<223> n = A,T,C or G

<400> 666

tttaaaa	att	tagata	caact	angaaa	atta	ttttag	tatc	agaaga	aatat	cagggg	gtgt	60	
agtact	catc	agagct	aaat	gagagc	gctt	taaaaa	tg	agttt	gtctt	ccgcc	atttc	120	
tacagaa	agc	tgcaatt	tca	ggtttt	caac	ctaata	gg	atattt	aaga	aaaaaaaa		180	
gcaatcg	caa	atagcccc	ac	tgctttt	taca	aatcat	tttt	tctctt	ctag	gtatag	cctg	240	
tcaggt	ggcc	taatgt	aatt	tttgac	atct	ctagga	attt	taataga	acc	agaaat	gggt	300	
gccagag	ata	tgcttg	caact	aatctt	aa	ggggat	ttat	gtattt	ctca	agcaag	tgat	360	
taaagca	aaa	ctaggc	acga	ttgaa	atcaa	gatctt	tttag	gcaaga	aa	gt	catgat	gagt	420
tttana	aatta	ttttagg	act	ctgtg	gcttt	ctcttc	catag	aaataga	aaa	aaaaatt	tgta	480	
taaaacc	aca	aaaggt	ctg	aatag	cccaa	gcaaca	ctga	acaaaa	agaa	caaagc	agga	540	
agcaac	acac	taccaga	att	caaatt	tata	tacca	aggtg	tagta	accaa	aacagc	attc	600	
tattggg	cnt	aaaatag	acc	naagac	caat	ggaac	agaat	aaaga	accca	aaataa	aatcc	660	
atatttt	tac	agccag	ctna	ttatca	ataa	aaacnc	caag	aacnt				705	

<210> 667

<211> 817

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(817)

<223> n = A,T,C or G

<400> 667

nnangact	ttt	tgtgg	tnnta	tacaatt	ntt	ttttct	at	ctatga	agag	aaagcc	acag	60
agtccta	aaaa	taattc	tataa	actcat	catg	actttc	ttg	ctaaa	agatc	ttgatt	tcaa	120
tcgtgc	ctag	ttttg	cttta	atcact	tgct	tgagaa	atac	ataaat	cccc	actta	agatt	180

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agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240
aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgtcttc 420
athtagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480
gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag 540
tgcacttagg aggtatcgca agccgtttct ggattaaatt cccagctagc ttgcttgctt 600
agcaggggcg ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct 660
tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatgggtcag 720
ttggggtggg ggatcccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780
agggctcgtc tcgatttana ctcggaattt tggtgccc 817

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<210> 668
<211> 826
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(826)
<223> n = A,T,C or G

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<400> 668
cggggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
taccattcga gtccctactc ctgccttgct ctagggaat aaaataacgt aaacacgtaa 120
gaacaatgcg aaagcgTTTT ctcccttagg ctgcagattg tcttcttcac cgccccgtct 180
tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240
ctcgttttga gttacaaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300
tagggaaaat tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna 360
atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420
caggttttca noctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact 480
gcttttacia atcatttttt tcttctaggt atagcctgtc aggtggccta atgtattttt 540
gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc 600
ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660
aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720
cttctcttct taaaatngaa aaaaaaattg tttaaacca naaggtctga ataccaagc 780
nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

```

```

<210> 669
<211> 547
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(547)
<223> n = A,T,C or G

```

```

<400> 669
cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgca ttgctttttt 60
tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaatg 120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacacc 180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga 240
catgtaatcc gcggagttag taactcaaaa cgagtgcac tnggaagtat cgcagccgtt 300

```

```

nctggatnaa attcccagct tgctngcttg ctnagccggg gggcggtnaa aaaaacatct 360
gcagcccngg ggnaaaaacc ttcgcattgt tcttacgtgt ttacgttatt ttatttccct 420
nnagcaaggc nggganttgg ggactcgaaa tggtagctgt gggctgggga tcgcccttgt 480
tacataaaag ncgtccagaa gagggacggg tacaggcngg ganctccaaa ggtcagtcctc 540
tgccatt 547

```

```

<210> 670
<211> 232
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 670
cgaactattt agactaccta ggaaaattat tttagtatca gaagaatata aggggtgtag 60
tactcatcag agctaaatga gagcgcttta aaaatgttag tttgtcttcc gccatttcta 120
cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaaagc 180
aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

```

```

<210> 671
<211> 214
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(214)
<223> n = A,T,C or G

```

```

<400> 671
ctcccccttc ntccttcgct actnncatt ttcnnaaatt tntttcgcnt atgnggaaaa 60
acaccacatc tnttcancct gcacagaaca ngnnnggggtg tgtaaaatga agggcttcen 120
cncctttctc tattnaanaa cactnaanaa gggangggct aaaaccgcg ngatntctac 180
nctatcgcg ggcgttttgg ngttggctag aaga 214

```

```

<210> 672
<211> 328
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 672
ngancagcgg ngttttaaagc ggccctctaga ctcgaggaga cncctgttgg atgggtggatc 60
acanntcgnt actactatac aggacagagt atcggganct cttggntgtt ggngcctgcc 120
aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac 180
cggctcgaat gnaccatgga tgattcncnc tagttgaaaa aaaactcagg cacatgtatt 240
gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgnctgtgtg 300

```

nnccccgtgc tgnctccaga agaggttc

328

<210> 673

<211> 223

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(223)

<223> n = A,T,C or G

<400> 673

gggggcaaag	ctggctagcg	tttaaactta	agcttggtac	cgagctcgga	tcccnagac	60
attgtgcatg	aaaatgcaaa	ttgagtgtgg	tctatantgc	catentcacc	tnctgncgc	120
tcaaaacaac	ngctttctgc	tgcaatgggt	agggctcctn	acncacggtc	gcnnacggag	180
gcnnccttat	cctentcggt	nnggatecct	ngaagcatnt	tct		223

<210> 674

<211> 256

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(256)

<223> n = A,T,C or G

<400> 674

gnggggtcnt	ngatgagcgc	gcgtaatacn	atcacntnctn	ggcgngntgg	gtaccgggcc	60
ccccctnaa	gcggecgccc	ttttttnttt	ttttttcatn	acatgataan	ntctttnttc	120
taaacagacc	acaccactan	agttcccttn	ctttngtacg	gaattgagtt	aaagtagagn	180
atacaatgca	gggcttcnnc	tctatttcac	attccaggnt	ggttcngnat	ggatcgggcc	240
tgccctctccg	atgggt					256

<210> 675

<211> 439

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(439)

<223> n = A,T,C or G

<400> 675

nnactagtc	agtgtggtg	aattccattg	tgttgggctt	gtatggggtt	ttttgtctag	60
ttntttggga	aatgttngtg	ttactatntt	ttggatatna	tatatgatat	gtatggccct	120
tctatgggct	cctcanacng	aactcaacca	ttttccacaa	aaccnattcc	tcctttccct	180
tcatgactga	gtgggtgttg	tactatccng	gaaactggga	cattgtcctt	cacatctntc	240
ccttanctgc	ctngtccnat	tgatgtcttt	gagctntgan	atgtctttgt	taactntctc	300
ctnctctgt	actgccggca	naattaagca	ccatntgtca	caaaaagtat	tgcgttacct	360
tcacgnatct	gttngttnc	atncttgctg	cttctccngn	ggaaaatagg	ctnttctggc	420
aaccgaacng	aanaaatac					439

<210> 676
 <211> 587
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(587)
 <223> n = A,T,C or G

```
<400> 676
nggnggcctn attaagcgcg cgtaatacna ctcaactntgg ggcggaattgg gtaccgggnc      60
cccctcaagt tnatntgccn aacctctctt ttggaataac aaaaggttta acacatatgt      120
cctcataggg acgcgctttc acacnttctt gacngcttca tanacntcat tncatattct      180
cctcagnaca agttnaggcn gaaggtgagg canacnttat aatttccatt tcacaaatnc      240
ggaaaagtgag gctcaaaggg nttaaaaaat aacctgatac aantcataga gccggtntct      300
ggaanaagca ggagcaaagt ccaggcatcc tgatccaagc tnggtccact gccttccact      360
ctggagaggg ttcatctccg acaaaggaag ggacntgagt ggctgganaa tctcatggga      420
taaagacctc agnatttcat gctcctggaa atcccatggg ttgaacaaca ggtntttggc      480
ccgtggttct ntccctttgn ccatctttta accttgggg aaatgatggc ntctntnagc      540
nttttttttn aaagagatng aaattgaatg attatnngct cattggg                    587
```

<210> 677
 <211> 444
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = A,T,C or G

```
<400> 677
gtggggcatn attaagcgcg cgtaatacga ctcaactatag gggcggaantg ggtaccgggc      60
ccccctcgaa gcggccgccc tttttttttt tttttactgt ccaaactntc tatngatnta      120
gttgaactgt ncaacgattt catgaaattc tatacacana gccttcaggt ccagagagta      180
aaacaaattt aaatttnttc accanattgn agcagncana agcatccnat natatccgac      240
tacaatgaat natatgctna nggtanctna tttaccctact ntgggggtctt tanggtctgt      300
cacaaactat tttcgtaaac atcnntttta anttnggtga atggacctaa tnccagataa      360
ntctattttn tntaccctag catncctgtg gctnactttt cgggctgtgt tggcntactt      420
ttaggagaaa attggtataa atnn                                444
```

<210> 678
 <211> 670
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 678

actagtccag	tgtggtggaa	ttccattgtg	ttgggagcag	tttaaaaaaa	aaaaagacna	60
aatatacnac	tcttgatnaa	acataaaggt	acagtggctc	atgaggaana	gaaaagggtac	120
ctnaggatgc	aaaantacct	accacatggg	aaccgttngt	ccacactcat	tccnnanaaa	180
accgagtcct	ctcanttnca	cacgtgtacg	tttcagttgg	gaagtgcctg	ccattactcc	240
naagcctaga	accttcacgt	cctgaaggtt	ctggaaggtt	tttcagattg	cttaaganac	300
gngcccttc	catattcttc	tccactaccc	nggggaacgg	aacaaatgga	gctgcgacng	360
ggaagcgtcc	cttcccntcc	gaacgctttc	tttcaaacct	gcctgccttc	cnggcgaatg	420
gaccggaagg	tttctnngct	tcctttcanc	ccnaattact	tcctgngttg	aaaattggcc	480
tggttggttg	caaatgcngg	aatttggtta	ctttctncat	gtcctgtgtt	gnncnaaccg	540
gctcnccttg	tgccctccct	tngaaaggtt	ttcatcaggc	cccgcccttt	ctcttntaan	600
ngtcctaate	cggncnggac	cactcgggga	aaattttttc	ttttcgaaaa	gccgccccnt	660
ccgtccggct						670

<210> 679

<211> 449

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(449)

<223> n = A,T,C or G

<400> 679

actagtccag	tgtggtggaa	ttccattgtg	ttgggagtag	gtctactaca	ncctacttcc	60
cctatcatan	aaganccttan	caacnttcat	gatccccccc	tctntannct	tttctctanc	120
tgctctctag	tctgttttgt	cctnttcccta	acantcntaa	ganagatnac	taatnctact	180
atctctnacc	tccggaanct	acaanacgtc	tggaactatt	cngaccccat	gcancncat	240
ntcccatcgt	cctcccagcc	cctncccttc	ctttacntta	ctnaacgaag	gtcgcagatc	300
cctcccntac	ctcccnnc	attgggnccc	aanggnactg	gacctcacga	ntacaccnac	360
tacggggnga	ctaagnctgn	aactccttac	atatntcccc	gttacccecn	gaacncagcg	420
aacngcnaca	ccttggaant	caagaanta				449

<210> 680

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 680

tttctngtgtg	gtggaattcg	cggccgcgtc	gacgagaaga	nggaggagga	naaggagaag	60
gagaagaagg	agaanaaggga	ggagaaggag	aagaaggaga	agaaatcatc	atcatcatca	120
tccactgtct	ngcaactatt	taagtttgc	antcccttga	aaacagggtac	ttttgtttca	180
atgtttggga	ccactnctga	cnatgannag	aanaccaata	aatgcttgat	naatgaaaaa	240
nccacttttt	acctgttaga	accctgaggc	taagagaant	gatgtgactc	gacttagtta	300
ccacaaacta	tgatcctagc	atnaattggg	gcactcgaac	acctcaactc	cctgtgcaag	360
aacagatttt	caatgtctac	tgatgatttt	aaatggatta	nttctctctt	ttacttctta	420
agggcatgaa	gntttatgaa	acaaaactat	ncagttccag	acgcttaacc	cacatagtgt	480
taatagtcac	cttcaacaca	cnactaaacc	cccaaaaaan	gnttttttacg	gngtttcgac	540
agttttcttt	tctttttgac	ttgnttaaca	cccnngacaa	ctttgtnctn	tttccntgaa	600

tcacanccttt cnaanancca atggtnccgt tttttctcnt tcngggccct tcccttnttn 660
 aaaaccanat 670

<210> 681
 <211> 494
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(494)
 <223> n = A,T,C or G

<400> 681
 tcatgggtgtc cacagtctga tgtgagcgca ttaaatttaa ggatctccgc ctttctcctt 60
 aaaactcagg acttggcaat gancctagga agcgcccctc ccttccccc ccanatccaa 120
 gccccggacc gctgcgntc cagctgcgcc tagtgaaacc gccgaattcg aattcacact 180
 cgnggggccc gcgaaggtgt gcgcgcccgc gggagcgccg gggcnagccc gagggactgc 240
 aagccaanaa nggaggcatg ggtggcgggg ggcgcgctct gatccaggaa ggagcggagg 300
 cgccgatcac acactcttna gacgccctgc ccgcgcctgg ccagcgcgca gnetgcagga 360
 cgcgcgagac aggaactcgc tggagtttgc caagccccc gnetctggaa agtntgtagc 420
 tccctttcgg ancgnctctt ctggcccttt gggacgggtg tgtcattggg cgggggtctg 480
 tataaggggg ggac 494

<210> 682
 <211> 263
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(263)
 <223> n = A,T,C or G

<400> 682
 tgatcattca agcngtngnc gnataacgat tgcfnagccc aacctttcat agggtcgttc 60
 ctttggaat nggatgtcta ttgaatggca gggatagggg cactcggcat tcgcctctgg 120
 tacagttttg catatatatc ctcatcgca gcgagcgtag gggancgtta agtttgggga 180
 aatgccnccg catgncctn ccggagctta aacccccaac aatnccatt ttnaaaaaag 240
 nttnttant taaaaaaaa aac 263

<210> 683
 <211> 255
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(255)
 <223> n = A,T,C or G

<400> 683
 cttgcccggc atgcacagac ntntttacgg acacnctact ccaagngagc ctgnanctgt 60
 ctacggtcaa nctctaaggt tngncantgc cacanatggc atagtcccga gggcggtan 120

tctggantgc	tctctgcact	tgaacntaaa	gcgcntttca	aganaggnet	aatngcctgc	180
ctcttgacaa	cnaacaancc	cacaccnacc	tangaccctn	tangcaagga	ctggattctg	240
naaatgcaat	acaca					255

<210> 684
 <211> 922
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(922)
 <223> n = A,T,C or G

<400> 684						
acccttcatt	tcattgtgctt	ctatttttctt	acatctttta	catgactaag	ggattaatga	60
aatcacctct	tcataatcat	gaccataatt	tcattccaaca	agtactcaag	tttggtgtta	120
gcactttatt	aatgcttacg	aattctctct	ctctccctct	ttctcttttc	cttagtcctt	180
gcacaataag	gatttttgaa	tgtataatat	catcttaggt	aagctttcat	atggttttgg	240
catatgaagc	ttatgactgt	cataagccat	accaagcctg	tggagtatgg	catgattttc	300
attacataat	ccaatgaaaa	tagacttatt	ttaaatccct	aactttgtag	ttttaatttg	360
tatttcacta	tcttgaaatt	aacagctagt	acttatccat	cacagcagtc	tcctactgac	420
atgaagcaag	ttgttgaatg	cagtaganca	tgaatgaaag	catttaaatgt	tanacaaaaa	480
tgggtgatac	ccaagcattc	tgaattattt	gcatcaagga	atgggacatg	tacattagtg	540
gcatcatttc	taccaatatg	tgacttgaat	tgttttttta	aaaaaaggan	aatgantttc	600
tcaatttgct	ttaaaaaatt	ttnaaaaagt	tcaatggcat	gctgctttgt	ctggacttaa	660
tttattaaca	attnttaanc	cttccttaag	gacanaattt	tggtgttcag	gacnccctg	720
aagggctctta	tttttnatan	nattccaaac	ccaaaagggtg	gtttaaaatg	ggnggggtcc	780
ccccncnaaa	atttgaccg	gcttttttat	atttaaaaaa	nttncctttt	gngtttgaaa	840
nctnaatacc	aattaagggg	gaattttacc	tnccagtggg	aaaaaaaaac	nctngccttt	900
naaaaaattc	ccnggagnca	at				922

<210> 685
 <211> 531
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(531)
 <223> n = A,T,C or G

<400> 685						
tgaggctctg	taaaactggt	cctctgctag	gcatacttca	tattctctat	attaaactca	60
tctttaattg	gcatggaaga	ttcattgttc	caaactctcag	atgaagatcc	tatattggat	120
gcaattaagc	ctggcagcgc	cctcaaaaaga	cagtcttgct	actgctagcc	acagccagga	180
cacagtaaca	gttccttcta	gtgaccnag	accataanaa	atananatct	aaagaattct	240
gactccaaag	gcattagccc	attcctggta	ttgccaatga	tgatagaaaa	aattgccaaag	300
ctcctgggac	atggaaatac	actcagtaca	tttgagaact	ggagaactan	tttccaaaat	360
agtatgaaga	catganggtg	attgtagata	tntgagtttg	gagaanttga	gggaaatcng	420
attacacatg	tttactacaa	gagatgttna	taagtaaaga	aggcctgata	tacaatctaa	480
cagacnantg	agataaatct	taantcacia	ctgaentccc	ttttggggcg	g	531

<210> 686

<211> 336
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(336)
 <223> n = A,T,C or G

<400> 686
 ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc 60
 tcaagaacac tacaagctat gtcctcttct canagagccc tgaantttta acatattgaa 120
 agctctnadc ttgccaaana actccactta acttcaaaac acaccctcca cacacatcat 180
 gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240
 anagaagcag ttctcaaant gcagctnaaa aagaaactga aaaccaatt catgcaanac 300
 ctagggttta ttgagagca ttttccagtg cagatt 336

<210> 687
 <211> 271
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(271)
 <223> n = A,T,C or G

<400> 687
 aatctgcact ggaaaatgct ctaaaataag ccctaggtct tgcattgaatt gggttttcag 60
 tttcttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc 120
 atttaggatt ctggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt 180
 tgaagtttag tggagttctt tggcaagatc agagctttca atatgttnaa acttcagggc 240
 tctctgagaa gaggacatag cttgtagtgt t 271

<210> 688
 <211> 740
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(740)
 <223> n = A,T,C or G

<400> 688
 tgatgaagcg cgcgtnttac nactcactat nggggcgaan tatgggtacc gggnccccct 60
 cgaagcggcc gccctttttt tntttttttg tgagagttaa aataaaatat ttgagttaa 120
 tttaaagttt gagttaaatt aaaatatatg gcatatccca agttgggctt tgcanaaaga 180
 acacttctca ggaactgtta gttggtgtac cagggaactca gaagggtcct gttattaaat 240
 atatttgga aatgcatgga ttctctgaan atcnctctgc atgtgagcaa cacttacatc 300
 ncaaaccaaa attggcattg catacatnaa ccaatatttc ccaaacattt ctggttatgg 360
 cccacccctt ttgtgtanta cttattgctg ttttttgga ccttggggaa attacttaaa 420
 atattcagct ggaaattaca ggcgttactt ttaaggganc aagaattaca gtgactccca 480
 aaattgcaag tggtgattac tatttaagaa cccaagaatt tgaaagaaat tttgaaaagt 540

gaaaacngga	aatnttaaat	gacttctcaa	atnttgaaaa	ctcnggnaaa	catctccact	600
ttggtnccct	tcctttaaaa	attggctaaa	aattntttnt	tatncccacc	ccattggaan	660
tncccccccc	ctggaacaat	tggattcccc	tatttcctaa	aaaacggccn	cccccccgg	720
ggngaacncc	nacnttttgn					740

<210> 689

<211> 635

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(635)

<223> n = A,T,C or G

<400> 689

actagtccag	tgtggtggaa	ttccattgtg	ttgggattac	atatactttt	agcaattttt	60
aaagaagtgt	acaaagttga	gatgtttcct	gagctctcat	atatctgana	atgtcatttt	120
acatctccgt	cttcacctct	caaaacttct	ttcaatttct	tggctcttaa	tagtaatcaa	180
cacttgcaact	ctggagtcac	tgtaattctt	gctcctttac	agctacncct	gttatttcca	240
gctgaatatt	tttagttatt	tcccaggggt	ccaaaaaaca	gcaataagta	ctacacaaag	300
ggggtgggcc	ataaccagaa	atgtttggga	aatactggct	catgtatgca	atgccaaaac	360
tggtttgcna	ttgtantgtt	gctcacatgc	agagtgaatc	ttcaaanaat	ccatgcattt	420
tccaaatata	tttaataaca	gggaaccttc	tganttcctg	gntacaccaa	ctaacagtcc	480
ctgaaaaatg	ttctttctgc	aaaacccaac	ttggggatat	gccatatatt	ttaattaaac	540
tcaaacttta	aattaaactn	caattatttt	atnttaaact	cctcaaaaaa	aaaaaaaaaa	600
agggggggcc	cttccaangg	ggggnccggt	tcccc			635

<210> 690

<211> 3923

<212> DNA

<213> Homo sapien

<400> 690

acagaagaaa	tagcaagtgc	cgagaagctg	gcatcagaaa	aacagagggg	agattttgtg	60
ggctgcagcc	gaggagacc	aggaagatct	gcatggtggg	aaggacctga	tgatacagag	120
gaattacaac	acataactt	agtgtttcaa	tgaacaccaa	gataaataag	tgaagagcta	180
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tactcagtgc	agcaaagaaa	gactacagac	atctcaatgg	caggggtgag	aaataagaaa	300
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<210> 691

<211> 882

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(882)

<223> n = A,T,C or G

<400> 691

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aaaataaaac	tagtataagg	atagaagccc	agggttgatt	taagtctgcg	gaaatcataa	180
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ttggtctaga	aaccaggatg	gaattagaga	ataaaagact	gagcaatagc	atgttatagt	300
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tttcctcaac	cataaaatga	agagcctcga	aaagatttctg	tttaccagat	tattttctgaa	480
gtcaattcca	gttctaaaat	tccatcactg	ngcactaagg	caaattgaat	tgaataaagt	540
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<210> 692

<211> 235

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(235)

<223> n = A,T,C or G

<400> 692

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cttctcanag	cacttaatat	gttaatatata	aactncngna	aaaaagatnt	tcnatgaanc	180
nttctcttta	ggaggtcagg	ngagaatagt	gttaatgnca	ttaagganag	aacga	235

<210> 693

<211> 383

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(383)

<223> n = A,T,C or G

<400> 693

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taatgcaccg	catctacatt	cccatgctct	ctttacttct	tcagcattgc	ctaaaggcat	180
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ctctgtccat	aatggnaaac	ctgnatgac	cttgatatta	acantttaag	gaatgctcat	300
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<210> 694
 <211> 204
 <212> DNA
 <213> Homo sapien

<400> 694
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 aagaaccctg tctgatgaag catcatttca gaattttaag tcaacttaca aatgtggtat 180
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<210> 695
 <211> 670
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 695
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 aggccctagg tccactggca ggtgtgcttc tcagggtctg aaaggggaag acagggccac 240
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 agggccaccc agaggaggag acggaggcag agacaggggc caccanagg aggagacgga 360
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 gagacggagg cagaanacag gcccccccaa agaaganacc ggaggcanaa aacagggcca 480
 cccanaggag gagacggagg canaaacagg gccaccccaa aggaggagac ggaggcaaaa 540
 cagggccacc caaaaggagg aagccggaag gaaaaaacag ggcccccca aaggaggaag 600
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 ggggcccnn 670

<210> 696
 <211> 317
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(317)
 <223> n = A,T,C or G

<400> 696
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 gccactgtc atcgtggata catttcactt ttttcacatg actaaggagc tctccggagt 180
 gaagagttag taaatatgtt tattacgcac tcatttgcta agaatcatca agaaccctaaa 240
 gtttagagacg tttcgtgggt gaactttctc cctactgtct agtagaatta tatggggatt 300
 ctggatctgc tgggtgcc 317

<210> 697
 <211> 246
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(246)
 <223> n = A,T,C or G

<400> 697
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 ggatcctcnn anagcggacg cctactacta ctaaattcgc ggncgcgttg actttttttg 120
 tttttttcct tnacagagnt ntttttgtgc ccttggttct tatgctcana ctengcaaaa 180
 aanatcaaaa gntacnntat aaaaacntat nccatctnca naaaggaggt gnagntatta 240
 ctttct 246

<210> 698
 <211> 3674
 <212> DNA
 <213> Homo sapien

<400> 698
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 agccagtga acatattcct tcttctctcc atcaggccaa atcacggtgt tgaccttggc 180
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<210> 699

<211> 2051

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(2051)

<223> n = A,T,C or G

<400> 699

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<213> Homo sapien

<220>

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<213> Homo sapien

<220>

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<400> 701

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<211> 4894

<212> DNA

<213> Homo sapiens

<400> 702

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aatgtggctc	tctgtgccca	ccctgtgctg	ctgaggtgcg	tagctgcaca	gctgggggct	5760
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ccttaacctg	cagcttcggt	taatgtagct	cttgcatggg	agtttctagg	atgaaacact	6060
cctccatggg	atgtgaacat	atgaaagtta	tttgtagggg	aagagtcctg	aggggcaaca	6120
cacaagaacc	aggtcccttc	agcccacagc	actgtctttt	tgctgatcca	ccccctctt	6180
accttttatc	aggatgtggc	ctggttggtcc	ttctgttgcc	atcacagaga	cacaggcatt	6240
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```

ttggtgtcta atatttgggt aggggtggggg atccccaaca atcaggtccc ctgagatagc 6360
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cctaaccag gaccttggaa attctactca tcccaaatga taattccaaa tgctgttacc 6480
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tatatgttta aaaaaa

```

<210> 706
 <211> 123
 <212> PRT
 <213> Homo sapiens

```

<400> 706
Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu Val Phe
      5                      10                      15

Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val
      20                      25                      30

Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
      35                      40                      45

Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
      50                      55                      60

Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
      65                      70                      75                      80

Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
      85                      90                      95

Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu
      100                     105                     110

Val Ser Gly Lys Gln Leu Trp Arg Met Leu Leu
      115                     120

```

<210> 707
 <211> 150
 <212> PRT
 <213> Homo sapiens

```

<400> 707
Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
      5                      10                      15

```

Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu
20 25 30

Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
35 40 45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Glu Ser Leu His Pro Pro
50 55 60

Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr
65 70 75 80

Leu Cys Pro Gly Ser Cys Leu Glu Gly Glu Val Val Cys Trp Glu Gly
85 90 95

Ile Ala Gly Gln Glu Gly Asp Pro Gly Leu Arg Gly His Thr Lys Arg
100 105 110

Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly
115 120 125

Pro Ala Gln Ser Leu Ala His Arg Arg His Trp Arg Asn Ala Pro Asn
130 135 140

Leu Trp Leu Ala Leu Leu
145 150

<210> 708

<211> 371

<212> PRT

<213> Homo sapiens

<400> 708

Met Leu Phe Pro Ser Phe Ser Arg Ser Leu Val Pro Leu Pro Leu Ala
5 10 15

Leu Tyr Leu Ser Gln Pro Leu Thr His Thr Thr Ser Leu Leu Ala Gly
20 25 30

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
35 40 45

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
50 55 60

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
65 70 75 80

Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
85 90 95

Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
100 105 110

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
 115 120 125
 Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu
 130 135 140
 Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser
 145 150 155 160
 Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu
 165 170 175
 Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala
 180 185 190
 Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala
 195 200 205
 Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe
 210 215 220
 Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg
 225 230 235 240
 Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp
 245 250 255
 Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu
 260 265 270
 Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg
 275 280 285
 Arg His Tyr Asp Glu Gly Lys Ala Leu Ala Ala Ser Arg Gly Trp Cys
 290 295 300
 Gly Ser Arg Pro Pro Glu Thr Thr Leu Gly Ala Val Ser Gly Leu Val
 305 310 315 320
 Pro Leu His Pro Gly Pro Asp Phe Ser Val Arg Lys Val Gly Met Asp
 325 330 335
 Pro Ile Cys Ile His Gly Phe Ser Trp Val Trp Asn Ile Ser Ala Cys
 340 345 350
 Gly Phe Arg Lys Ala Ser Gly Cys Ser Arg Ser Leu Ile Arg Val Val
 355 360 365
 Ala Pro Val
 370

<211> 141
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(141)
 <223> n=A,T,C or G

<400> 709
 tacggcgtgg tgcggagggc ggtacccac aaataacacn nacaccccat cctatctgtg 60
 tccacanata aantgactca ttcctctcct cgcatanccc actntcccct ngcgataaccg 120
 taacnaancc cttccccctt t 141

<210> 710
 <211> 196
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(196)
 <223> n=A,T,C or G

<400> 710
 cnatccttcn cntacaccca tgangtccat gtcgcacgtc cacctcccct caaaacttgg 60
 gtcncatcc acccgtaact ctccccntaa ncnataaccc cttttngcga atagacccca 120
 ccttancaat nggtttttcn tttttgtcc ctnggnccgn gcgattcaan aaattgaagg 180
 cccanaaaaa ccccct 196

<210> 711
 <211> 177
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(177)
 <223> n=A,T,C or G

<400> 711
 ntacntcnct ccnaatgaaa ttcgaanctc ggttacccgg gggnatcccg attaggngcg 60
 tantctcgga tgtgcagtca caagtctttt gctaattcct ataattntcn ctaccctttc 120
 ttcnacaata ctgctatcct anttnttctn tcncctctct cccannttac taaccac 177

<210> 712
 <211> 185
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(185)
 <223> n=A,T,C or G

```

<400> 712
aaacgnacca nngccaacga tangtggttg ngttgggttg ggttggttct cttatntgca 60
ctggttggtcc gtgtcgcacg ganggccacg tccctctgnc ntgagtanca catagcatcc 120
acgttttagtc gactntnccg ggcggccgct ctaccntnt atngattctt attaaaantc 180
ggatc 185

```

```

<210> 713
<211> 172
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(172)
<223> n=A,T,C or G

```

```

<400> 713
nntggctgcc tgngcgtnta ctctaaagga tntactatnc atatggantc naanacgact 60
cactacacgg cncctnccg agccnnggtc agtgccctnct nggagacctt ctctggggca 120
ggangagcac tnggtatggt cacgtatcnc ttcntaaana tacnnccctc cg 172

```

```

<210> 714
<211> 112
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(714)
<223> n=A,T,C or G

```

```

<400> 714
nttgctgcc tggacgtnta ctctgcanga tctactactc atnggaattc taantacgga 60
ctcactatnc ggcancgcag gcgcagcagg gaanggggtca cctcccagtc tc 112

```

```

<210> 715
<211> 326
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(326)
<223> n=A,T,C or G

```

```

<400> 715
tactctanag gatctnccg tcatntggat tctatntcga ctactctag ggctcnagcn 60
gtcngccggg caagttattc ggatcgtcgg gntccgagct tcgcaattaa ntgtgccatc 120
gttctncaac gttcctgact nggaancccc ngcngttcng atccnccngt acctagctcc 180
anntcccccg tntccttct ggngtntcat naangaggac cncctcgcg cnccttctc 240
taatctgcnc acnctgaacg nccaatggac atngtgcggt taatntanna ggcccgnctc 300
gngtgccctt cccgtnannt cagctc 326

```

<210> 716
 <211> 122
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(122)
 <223> n=A,T,C or G

<400> 716
 nntgcgtcgc ctgnngcgtnt actctagatg atctgantag tcatatggat tctaatacga 60
 ctcannatag ggctctagcg nggatncnga ttgctentcc ngattcantg acnccggtan 120
 ca 122

<210> 717
 <211> 203
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(203)
 <223> n=A,T,C or G

<400> 717
 cntgcatgcc tgcaggtcga ctctagagga tctactagtc atatggatcg agcggccgcc 60
 cgggcaggtg tnaatgataa anatgcatca tactanccta cagaanggag agataatgtt 120
 ngntggacca ngttggtttt cttgcgtgtg tgtggcagta gtaagttatt agtttttana 180
 atcantaccg ccctccgcac cac 203

<210> 718
 <211> 168
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(168)
 <223> n=A,T,C or G

<400> 718
 ggcagganga tcncttgagc ccnngaggtc gaggctacag tgagccanga gtgcactact 60
 gtnnccgcct ccgcatncac gngtggtccg atccccgggt accganctng anttcactgg 120
 anttcttttt aancgtnttg antggtacna ccctcgantc cctggctg 168

<210> 719
 <211> 210
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(210)

<223> n=A,T,C or G

<400> 719

```
cancgtcgnc ataacacgta ttttntgatn aagattctna ctgacccatn aantctacnt 60
ctcaagctct tncanngtcc agtnaangga atgtgtatnn gtnggggatnc cacanaaaaa 120
aganatntcg gncgcttcat tantcactct tcttaccan ntctctngat nncagtntg 180
ancntgaacg cacactacng gatntctcca 210
```

<210> 720

<211> 131

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(131)

<223> n=A,T,C or G

<400> 720

```
tccatcctaa tacgactcac tatagggctg ccaacctgcc atccactact gaggaagacc 60
cgnaactta ggggctcact gcgagccacc ggccacaggt cgtatagggc aaagcacng 120
gaagcaccct t 131
```

<210> 721

<211> 121

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(121)

<223> n=A,T,C or G

<400> 721

```
tccatcctaa tacgactcac tatagggccg ntgantnctg gcgaaaggct tacaattaag 60
naggaanaan ganccaacaa ctaaaaaaaa nncggncgtg ncagcttnga tgactngtcc 120
a 121
```

<210> 722

<211> 246

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(246)

<223> n=A,T,C or G

<400> 722

```
anctggagtc gcgcgctgca gtcacattgt ggatccanaa aatcggcaca agctctcntg 60
gnttcntcga tatgaanaac actaatccca tgnngntnngn gtctccgtga ttcattccctc 120
gcacnggtcc cnttcnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180
agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cnccgtnaac 240
atcaag 246
```

<210> 723
 <211> 160
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(160)
 <223> n=A,T,C or G

<400> 723
 cctccggaat atccaantag agtaantnch ctctaattcg gggnaattgg nggggttnnat 60
 acgtcctcct cccccagnt aggattnana aaaggntctc cagancaaaa nctccaaagt 120
 gnatchnanta gccgtncctg anatchaact cccctacgtc 160

<210> 724
 <211> 156
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(156)
 <223> n=A,T,C or G

<400> 724
 tnanccnata tacaccaaact tctgattcta aantcccacc caagggaaaa aagttgagaa 60
 gagcctttcc acttttctac taataaaaaa atgcaccagc ccctaccann agtgnggaaa 120
 acctccttag gcccttgnnt ggaacaanct aaaatc 156

<210> 725
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(347)
 <223> n=A,T,C or G

<400> 725
 aganggttnt atncatgctg tactcgcgcg cctgcagtcg acactagtgg atccaaagaa 60
 ttccggcacga gagacggtgc gcgatggacc gagggcccca gccggngagg cgcgcgccgc 120
 gagcccgcgg ncagacgccc catcagtagc gtccgcaccg ggnagccgcg gntctcgccc 180
 gagccgtggg cgcgcgccgag gggcggggtc gcctcccgcg gtccctcgca gctctgccgg 240
 gcccgagccc gcgcggtcgc cgcgcgccgc ttgcgcgtcg gncgcgcggg nccggnaaac 300
 gcggtcgagg tctggatgng gcanngcccg cncctntcgc tgagcct 347

<210> 726
 <211> 162
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(162)

<223> n=A,T,C or G

<400> 726

```
ttgggtgggt tgggtggggg naaatttncc catttgggtg ggtttggggg ggnaaatact 60
tccgccttt tnggtnccca aaganacnaa gggggagtcc cttnatagag gnagngcgat 120
nntncnaac nactngact ttgnccatgg ggagnaaggt gg                               162
```

<210> 727

<211> 120

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(120)

<223> n=A,T,C or G

<400> 727

```
gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttgcca aagnacaggg 60
ggggtcnctt anagnnagg gggttcctcc ccaccacttg ncttgnccat tngagnaag 120
```

<210> 728

<211> 130

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(130)

<223> n=A,T,C or G

<400> 728

```
gaccactgc agcgttnaac ttagcttggg ccgagctcgg atccctagtc cgtgtgggtg 60
aattccatgt gtcgagagag gggcaaatac nctccaanac ancncctca tgctcnacac 120
atattcgcat                               130
```

<210> 729

<211> 182

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(182)

<223> n=A,T,C or G

<400> 729

```
cngactgctn gcgtttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
gctggctgct tccagtcgat tanatttgtg aaaaagctga accncngccn gttaaggggg 120
annatgcaaa anatncatcc nntgccccn taaactgntc tntccnaggg aaaaaangga 180
ag                                             182
```

<210> 730
 <211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n=A,T,C or G

```
<400> 730
cactcncact ccggacctag gcncttcacc actgetctct tctcctcct cctcctctc 60
ctcggggctg ggggaccttc cccagtgaac atctcacttt ggctgaancc cactcggggc 120
agcctgagtt tggggctctt ggctttctca cctcctcgg cccctcctt ggcccgcacc 180
aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctccctc cccctctgcc 240
acctggtact cggcatgggt gcccccgga tggcgagagc tccacgtcgg gcagtgaaga 300
gcagaaagta cgctcgggcc ctgggggctg ctctcagca cctcgcccc ccaccctagc 360
tctggcccc agtgtgggca acttcagcct cagccaccc tcgcctgtgg ccgcctcgcc 420
cgctgtgcc tctcggtta gcccacgtc caactcaagc tggggcactg tcacgggtggg 480
catcttaaag acaccctcac ccaccagcag ctccaccct gcaacctggg ctccaggcaa 540
aaaaagggtc acctggggca nctgaacct gtacctgtg tgcctctgc tgaanggaat 600
gttatctgaa cctgctgccc tgggggtact gccttccaa aaccgggtca antccacctg 660
ttggaaggna aatncccc                                     678
```

<210> 731
 <211> 135
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(135)
 <223> n=A,T,C or G

```
<400> 731
gagatccgac gtcacccctt tccggcggcc caagacgctg caactcccga ggcngcccaa 60
atatctttgg aagagcgctc ccagcccaac acaatggaat tccaccacac tggntagt 120
gatccgagct aagcc                                     135
```

<210> 732
 <211> 660
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(660)
 <223> n=A,T,C or G

```
<400> 732
gcttggtacc gagctnggat ccctagtaac ggccgccagt gtgctggaat tcggctttct 60
tcaatcagnt nacgagctgc atggtctgct aacattgtca taattgctgg catagattac 120
tgaataaaa gaaaaaaat tgaagctgcc tatcaagttt tggattatc aaaaacttcc 180
```

```

tacaagttat tttacttcaa ccatggttatt acaaataattt taatgaatac tttagagact 240
ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300
ttgataatta cataaattat tatggtccat tcaacttttc tagtgtttag tttatacacc 360
aggaagactt tcctattcta ctaacattta taaagtatgc taacctatta tttaaacgca 420
tccactatta ggatttttatg gcctaaaacg tgatacagtt cagtatcttg atgtcaaaac 480
tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtaggggt 540
cttctgaata actcagnaaa gctcacttcc attatcttac tttataaaaa aatgctataa 600
gacagaatgg gccgacgtgg nggctccacc tgtatccacc tttggaggcg agnggcgaat 660

```

```

<210> 733
<211> 836
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(836)
<223> n=A,T,C or G

```

```

<400> 733
aattaatgac tttttttccg ccctgccaaag ctagtttgtc taaatataat gttaaagaaat 60
tagctactca ttttctgggc cacgaagggt cctaaaatgg gaagaagtgg agatctgacc 120
ttgttagttc taaatacaact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180
tcctctataa ttgtatacaa aatcgtgagt ttttaaaaac tgggttagag ctattgggtc 240
ctcagagtct caggcatctt agacccccc aaagggttaag gactactgac ttaaccaatt 300
aggtttgagt ggcattggct ttgaagaaaa gcagaggaaa gatataatctt ataattctgg 360
gcaacaaaaa agtggatgtg tgccagcatc ttagagtaga atcctcttaa aaggatagca 420
ctgcatatga actagtaggt ttaaccagt gcatatttag gcgaagtagc tcatttttct 480
gttagaattc ttttttattt gggaatgggc aagcttttac agcttttacc ttgccaatga 540
atacctggaa tttaaaaaat cttgttaggc atattgccca taaagttttt tttcctagat 600
catatattca gtaaatatgt ttgtagcttt atttcaatcc cccaattcat tgagggttga 660
aacaatttga atggttttag tgtagaagct aagttatttc tgtagaggct aagggcattt 720
ataccaanat atgttagact tgnngntcct gttaaccatg ctgtanacaa taggaattac 780
tgtatatcca cattttaatt ttaacatctt ctgctttgnt gntgggttga gangga 836

```

```

<210> 734
<211> 694
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(694)
<223> n=A,T,C or G

```

```

<400> 734
nagtnctatt tncactaaac tgngagtgcc ttggatggct ttcaggatgt cctgaatcct 60
ctataattgt atacaaaatc gtgagttttt aaaaactggg ttagagctat tggttcctca 120
gagtctcagg catcttagac ccccaaaaag gttaaggact actgacttaa ccaattaggt 180
ttgagtggca ttggctttga agaaaagcag aggaagata tattttataa ttctgggcaa 240
caaaaaagtg gatgtgtgcc agcatcttag agtagaatcc tcttaaaagg atagcactgc 300
atatgaacta gtaggtttta accagtgcac atttaggcga agtagctcat ttttctgtta 360
gaattctttt ttatttggga atgggcaagc ttttacagct tttacctgac caatgaatac 420
ctggaattta aaaaatcttg ttaggcatac tgcccataaa gtttttttct ctagatcata 480

```

```
tattcagtaa atatgtttgt agctttatTT caatccccca attcattgag ggttgaaaca 540
atTTgaatgg tttgagtgtga gaagctaagt tatttctgtga gaggctaagg gcatttatac 600
caagatatgt tagacttgtg gttcctgtta accattgctg tagacaatag gaattactgt 660
atatccacat tttaattttt aacatcattc tgTc 694
```

```
<210> 735
<211> 126
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(126)
<223> n=A,T,C or G
```

```
<400> 735
ncnttgaaac nggttgacca gacttcaggc ctgtgcgctc aatcgtggag aatctcgtgc 60
cgaattcggc acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120
ctctct 126
```

```
<210> 736
<211> 165
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(165)
<223> n=A,T,C or G
```

```
<400> 736
cagaagcctt taaaccggtt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60
tcgtgccgaa ttccgcacga gtctctctct ctctctctct ctctctctct ctctctctct 120
ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165
```

```
<210> 737
<211> 125
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(125)
<223> n=A,T,C or G
```

```
<400> 737
ggnagccctt ttaaccgttt gtccagactt caggcctgtg cgtcaatcg tggagaatct 60
cgtgccgaat tcggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120
tctct 125
```

```
<210> 738
<211> 137
<212> DNA
```

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(137)

<223> n=A,T,C or G

<400> 738

```
ggagncnctt gancaggatg accgacttca ggcctgtgcg ctcaatcgtg gagaatctcg 60
tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120
tctctctctc tctctctc                                     137
```

<210> 739

<211> 970

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(970)

<223> n=A,T,C or G

<400> 739

```
aggcctatatt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccggtc 60
cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt ctccccccc 120
atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180
tgtggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcatgaga 240
catttttcct aactgagcat agccatgaac ctctcacgtc tgttcctctg tgtcagtgtg 300
tancactgaa tacagcagcc ctccataaaag tccaggcagt gcacaggctc tgacatgatg 360
aagtgcagtg ttgctatggt gattttgcag ctggccaaat agtcactggt tgattttacc 420
cagcaggaga tttttgcaaa aatttcctgg gtgagagtga aatcaaactc ctattttgnt 480
tctcctctgc aagctgnagt taagatggat taatgagtac ttttagatta attaaactctg 540
aagagaaaat gggagaaaag tgaggaaggt tgttggcaga agtcattgct ggaatccttc 600
tgaagggagt actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660
tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720
tacgcataatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780
aagaaaaagt ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgya 840
aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat ntttaaacca 900
aaantgaaga agggaaaaat ntttcccent nttttnttt tttgccccct tgggattggn 960
ttttntttcc                                             970
```

<210> 740

<211> 739

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(739)

<223> n=A,T,C or G

<400> 740

```
gntgtcnaaa aagcaggctg gtaccggctc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccncca tcaatcagtg aacttttttag cctactcaaa 120
```

```

gctttgctcc aatgcatagg atttatgatt gtgggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggctctt gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tgcccaaata gtcactgggtt gatttttacc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc 739

```

```

<210> 741
<211> 1171
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1171)
<223> n=A,T,C or G

```

```

<400> 741
gccttgnggt gacactatag aacatgtttg tacaaaaaag caggctggta ccggtccgga 60
attcgcggcc gcgtcgacgg cccttnntgc cactagttct ttcattcttc cccccatca 120
atcagtgaac tttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
gggatttcca gataatataa atattcaaca tgaatatttt aaattaaggc atgagacatt 240
tttcctaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agtttgtagc 300
actgaataca gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat ttaccagc 420
aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480
ctctgcaagc tgtagttaag aagggttaa tggagtactt ttaagaatt aaattaacct 540
cttgaaagaa gaaaaaatgg gggaagaaaa aaagtggaag ggaaaagggn ttggttttgg 600
gccnaaaaaa agtttccaan tttnggcntt ggggaaaaat tccccntttt ccttggnaaa 660
aggggggnaa ggttaancct tgggaacctt tttcnnctt tttnggccca aaagggaac 720
ccagggggaa agaaccttta ggnaaaggaa acccatttgg gaanggggtt naaaaccntt 780
ngggcccccg ggccctcctc caanaaggga aaaaaaagg cctggaaaaan gtaccagggt 840
ttcangggna aaanttaaaa ttcttgcca atancnccat aattgggaat tatggggggg 900
ccatgggctt ttggtttggg cnccttaacc cgcnttttaa attcaaanna aaaaaaagn 960
gttttgaaaa nnaaanaaaa aaaattnaan ggncccnaaa aaaaaccctg gaaaaccttt 1020
ggaaaaaaat tngnnggggg gccnttttgt tgggggggtt tnaaaaaacc ccctnggggg 1080
ttttttaagc ccaaaagggg gggaggggna aaanggtnc cttntttttt ttttngccc 1140
cccttgggga atggnntant tcanggggcc c 1171

```

```

<210> 742
<211> 739
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(739)
<223> n=A,T,C or G

```


<400> 742

```

gntgtcnaaa aagcaggctg gtaccgggtc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcatte tccccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gtctctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tggccaaata gtcactgggt gattttaccc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
gttggcagaa gtcattgctg gaatccttct gaaggagata ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaat ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc

```

<210> 743

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(610)

<223> n=A,T,C or G

<400> 743

```

ctgtccttat ttcttttagca aaaatttccc aagagaagaa ttgctgggat aatgcacatt 60
taaatTTTTTg atagacattc ccaaataatta tacctgtttt tgagaccttt aattcctgtt 120
gtcaaattgc cctatatatg gagtaataaaa cagcatTTaa agaaatgagg actaaaaaaa 180
gattatatat aacccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240
ttatctgtgg gtgcatcca ttataagtaa cctgagcacc ttattttttc tttttaaaact 300
ctaggtagga taccggaggt ccacaaattt ttcataagaa atattttttc tctgccctat 360
gagattttta aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaatatct 420
atgatgaagg atttggaggt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480
gctctngat cttggacagg tcaattgact tggcttaatc ttctcatcca tttagnagg 540
acagcaccac tattcacagg actattgncn gaattaccag acaatagcat agngnaaaat 600
ataangcctt

```

<210> 744

<211> 127

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(127)

<223> n=A,T,C or G

<400> 744

```

ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60
gcacgagggg gagagagttt gagagagaga gagagagaga gagagagaga gagananaga 120
gagagag

```

<210> 745
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> n=A,T,C or G

<400> 745
 gatatcccgg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60
 ggaagctggg ctacgtcctg cccaggtcag ccttaggtta agggctgcct gggggaggga 120
 acttcctggg ccttcgggtc tctgtgcaact ggggtggctc ctgtggccca gaatgccctg 180
 gagaagggtc ctactggaag cgaagggtgca gggcagcagg gcctgaggcg caggagctgg 240
 tggaggctcc cagcacaggc cgccgccccca gtcacatcac tgctgatggg ggggggactt 300
 ggggagtttc ccccgagaat gggagggtctc acagtcctccg tgctgcaatg ctgtcgggtgc 360
 actgngncng caatgtgctc atggncactt gctttttctc tgtggccccg gccgatttat 420
 ccagcanngc acccctcttc tncctctccg anaaagcc 458

<210> 746
 <211> 893
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(893)
 <223> n=A,T,C or G

<400> 746
 aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cgtggggagt tagctctctg 60
 gaccccgctca tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120
 canngaaagt cctgccgact tectggggaa gcccatccgc acgtgggggtg aggggtcccca 180
 natggaagca gctgtgtatg cagggagggg gcagaggctg ctgccaatgg gcatgtccct 240
 tacctgaaag ggccacctct ccagggtgaca tgtcctgggg gagccggggc cgtctgctcc 300
 ggccagaggc gctcagctca ggccacacca ggcagggcac ctcccaacct ggacagggtg 360
 ggaccaaggc ggccttggaac aaaactctct gtgtttgcca agcacccaat cggacacaga 420
 gagtcaacca caccacagtc acatggtgtc cacacngcag ggggtcaagga ggcccggccc 480
 ctccccctca gacgtccctg ggctctctgg agtcagcaag gacgaggacg gcattgccct 540
 tcgagacagg aagggagtga cctcctcccg gcggcatcca ggctcngctt ctccggagag 600
 gagagggggc tacttgctgg ataaanccgg cggggccaca gagaaaaagc aaggtgacca 660
 tgagcacctt gcaaacacag tgcacccacc agcatttnag caccngggac tgtgaagacc 720
 tcccatttct tcggggggaa acncgccccaa ngttcccccc accntcacta gtgnattgtg 780
 acctgggggn cgggcccagc cctgtngctt gggnnagccc tccncccagg tttctnnggc 840
 ngcccnttaa nggnccctng nttggccctt tggcncctt tncgcttttc cca 893

<210> 747
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(738)

<223> n=A,T,C or G

<400> 747

```

gatatcccgga gaattcgcgg cgcggtcnac gaagcacaga cctgngccct gctctcatgg 60
ggcagactgc catttgatcat tnattactga aggaaagga tcctcagttt gcttgtggac 120
atttcaaatt tgaggtgaga gttggataag taagaataaa gctgctcttc aaagagatga 180
atatagaaaa agaaacaaga tacagncttg gcagtaaggc tgggaggaag gggaaaaggt 240
aataaagaat gaaagagtga gaaatgtgag caggagctga acacagaaaa gttcagngac 300
agaagcanaa ggaggggaaga agggaggagg gtccctttca cagaggctca cgaggatgct 360
ttatgngtgc catgcagtc atgttcagga tgtctgcttc ttanctctct acttttctaa 420
tanaaatttg gatacttact gatcctacat atgtaacagg gagagaaggt gaatttctaa 480
gcantaaatt gaaaaattgt tcacaatttc attttttaaa aaaagggagc taacagaaga 540
agagggttaat gtggttaatta taggatgnct cttgcgcac atgaatgnat ctggtatcat 600
ctgagtgagg ggggagctgt cttcctgacc caaaaggatc ctttcgttan ccngnactta 660
ngtcccaaaa cctcaccacc ttggagaaat natttccttt tgggggtntc attaaancct 720
tttggncccc gcaaaagc                                     738

```

<210> 748

<211> 647

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 748

```

ctntgtggcg gtggctgtct catttggttg gacttttttg gtcgtaggaa cctggatatg 60
aggctcgagag taagacgggc tattagtagt cgcacgagag ttatttgtga aaacctggtt 120
agggcctctg tctccgctgc gctcgcctaa attggtatgg ctgcacttgg aaacacggtt 180
ctaacacgcg ttgttagcgc ccttgctagc atgtgaagga cactggccct accaagaaag 240
attcgagtcg ctccctccgg tatcgttcac ggagggcagata ttactcttc ttactacggt 300
tacttcgaga ttgtctgtga agtttaagac tactaaaaag agtattaagc ctatcgggaa 360
ttagctagat cgacacgcta aaaccaaggc caatcggcgg aaatatagag gcaccaataa 420
tagggcctac agaaggcccg agggtttagc tcacgtttta taccggccac gggagaaata 480
aaaagataaa gtatacatcg ttttagcggtc ctcggaagcc ttcggcttta atgccaagga 540
gtcggaagca tcgtcggcga gtaataaact ccacgcgcgc gagactatct acgacgcctt 600
ccttaanata cgtaaattac tcccggaag agtatttagg cggctctt                                     647

```

<210> 749

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(642)

<223> n=A,T,C or G

<400> 749

```

ctntgtggcg gtggntgtct catttggttg gacttttttg gtcgtaggaa cctggatatg 60
aggctccgcg agcgtgggct ctcgctcgtg atgttggggg ttggtgtggt gccggttgtt 120

```

```

tttggttctg ttgagcgtag tgtgtttgaa ggtagcggt cgtgtcttgc ttgtggtttg 180
gtgttttagg cgggtgggga gggtgtgtgt tagctgttgt atgtcatatt gttggtgttg 240
ctgccctgtg ctgtttgtcc ttggttattg tggttggtac cccgcctgtg tggaagtgtt 300
gtggcagggc gggaatttaa gtgggagagt tgtgggaccc gtggttggtg ttacgttgct 360
gcttttgtcg tgggcggtgg cggcgcgtct gataattaga attggatacg gagtgataa 420
tacttctagt aaatggggac ctagtgttga acttcccga atagggatct atgcgaagtc 480
cttaggatag tctttgataa gtttaacgcc cagcacccta aaattataca cgattagacg 540
cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac ccatacacg 600
tcgcatagga aacaagagaa ctaattttng ttaaaaagac tt 642

```

<210> 750

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(639)

<223> n=A,T,C or G

<400> 750

```

tttgtggcgg tgggtgtctca tttgggtgga tttttgggtc gtaggtaacc tggatatngag 60
gtatagatgc cgattggtcc cgacgagcgt cagcataaat tcggtagttt cgcccttttt 120
agaaggcgtc agtactcgga acttcacttc atctcggtag ttacttttgg cgtatatagc 180
cttctccctc gaagactagc cgtcacattc gtcccttagg aatcgtttct gcccctaaga 240
atccgagagc gagatccga aactagagga acctagaag agtcgtattt ccacaaggac 300
cccacagtca ttccgggaaa atccctagga ccatacgggt aggattcccc cggaaccggg 360
agcaaagctc atgatttccc acaccgcgag agcgcctata accctatccc atttcttcgg 420
gttatcgagg atattacgat caagccgaga gaaccgctag aaccgctttc ttcgctttct 480
cacggaacct ataagtagaa agagaaactc aggtcttaag ggggcgcttc ggctaacgaa 540
acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
tgtacgatat catcggggagc ggttcataga cgggtgtccg 639

```

<210> 751

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(637)

<223> n=A,T,C or G

<400> 751

```

cttttgtggc ggnggtgtct catttgggtg gatthtttggg tcgtaggnaa cctggtatng 60
aggcagctct gagccccccc ccccccccc cccccnccc ccccccccta ggnggttggg 120
aanacggtgg atacctaaat cgagtgngtt cattaaaagt agttgattac nccctaaaat 180
aanaanaggg ctctgctcggg anaaatcggg aagganaagt cttnttggca tcataanaat 240
actggctcgg gtctctaanat nttaagng gtnccgagg gtnttcatac cgataanaaa 300
cgttttccta tcggcaacgg gcttacctga gggnggactt ctncggngc ggngattnan 360
acgaanacgt agaggattnc cgntacttnt tganatcacn cgtatcatac ttgtaagcat 420
aattntcctg aaaagtgtta taanaatacg cncgcataat cgctttttcg tcctagggat 480
gcttaaatgg cgatactgct atagcgggtg agcgttgggt ctcgagnaan aaagcgtgtc 540
ctaattgcgtc taaggnthta agnncgttgg tttaaaaata nccttagaaa cctcgaaggcg 600

```

gatactgggtt tntttttaac gaaacaaagc accccnn

637

<210> 752

<211> 644

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(644)

<223> n=A,T,C or G

<400> 752

tntgtggcgg	tggtgctcat	ttgggtggat	ttttgggtcg	taggaacctg	gtatgaggtc	60
ttgcgagttg	ttgggtgtgc	ctgtcggtcg	gtgggtccct	tttgagttga	gtttgtcctt	120
tgagggttgtt	agctgctggt	cgtttgtggt	cgtgtagtgc	tttgggttga	gagggttatg	180
gtgggtggtta	cggtgtattg	tcgcccgtgg	tcgcgggggt	ggggtggtcg	tcggttttgt	240
ggttcatagt	agtccttctgc	gttcgggtgg	gcgggtttgg	gtgagtagtt	tcgttcttgg	300
atgtcccatt	gaccgcctat	aatctaagta	agggttagta	gaaacctctc	cccgatagac	360
acaaccgtcg	tccactaaag	acctcgcttc	tgatttttaa	aaggaccgga	aaaacatccc	420
ttcaacggaa	aaaacggaaa	aaaagtcagc	gaattcaaag	aagccacggg	agagaaaaaa	480
gaactaaagt	tagtccgtca	ttatatgtct	cctcggagga	ggaagcggcg	gtggcggaaa	540
atgaggcggg	aagaaagacg	acctctatcg	gcggcttang	ccctaaaagg	gcgatacctt	600
acgggatgat	aaggacccta	ggacgcctcc	ttctcggatc	gtcc		644

<210> 753

<211> 635

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(635)

<223> n=A,T,C or G

<400> 753

ctttgtggcg	gtgggtgctca	tttgggtgga	tttttgggtc	gtaggaacct	ggtatgaggg	60
aatcagctcg	accccccccc	ccccccccct	ccgaagcaga	gccaaccca	aagtccaccg	120
actacccgag	taaactctcg	gagggtagaa	taagaaggag	taggtcctag	ccaatagaag	180
tagttccgag	ccgttaggac	agcggacgga	acattnaaga	aagagcctat	attagggagg	240
aagtaacggt	cctctttcgg	agctctttaa	ggggtagtcc	cagaacaagg	gaagaggacc	300
cgtcggctat	tgcccgtcga	tacgggctct	cacggngagc	ctaggttcga	ggatagggcc	360
gctcgtaaaa	ttatacgggt	tccgagaaac	gcttccgtag	accgggtcct	aaatcgctcc	420
gagtattngg	agagggatcc	ttcggaccct	agggacagag	agaggagaac	ggaggttaca	480
ggaggagaac	gtntcctcnc	tagttttctt	tangtcgaaa	aatttcttac	cgataggggt	540
cctagggtcg	gngaatttac	ggttcgaaaa	acggtagtnc	ctaanggntg	ntattngggg	600
tagtatcggg	tcgtttacaa	ntcgtccgtc	ttntg			635

<210> 754

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(721)

<223> n=A,T,C or G

<400> 754

```
accggattng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
gcttgtgagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaagggaa gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagttgt gatgcctgca acttaccaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agagggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc tttgcttctt cccaccctc tttcccagct ctctctctgt 540
ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721
```

<210> 755

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(721)

<223> n=A,T,C or G

<400> 755

```
accggattng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
gcttgtgagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaagggaa gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagttgt gatgcctgca acttaccaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agagggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc tttgcttctt cccaccctc tttcccagct ctctctctgt 540
ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721
```

<210> 756

<211> 873

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(873)

<223> n=A,T,C or G

<400> 756

```

ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60
ggaaactgtc agcctgtctc tttcactttg ggcaagttaa agcaaagacg tccagtccta 120
tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctgggc tgagtagagg 180
ttccctaggc aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240
atgccaatga gcactcatta taaccgcgcc tattttatag gatttaattt tacacttcag 300
gcttaatcag tctgaaagtt aaactgacag tgtaagtta cggaatcaat gacatttagg 360
ctttatgact ttgtagctga atatctatgg gctatatctc cattctaaca gtgatatcct 420
gttccagaat ctcatctctt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480
cacaccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540
gagcaggagt tcctctcagg gaggacgctg acacttccac agctgcctan gtatgggcac 600
ctgatgccaa cgaanaaccc aaagcgcctc cccttccaga tggaagctgc cccacactgg 660
gctgacagca tctggagctg ctctggctca aatcccgaa tcgcacanct cctanccggg 720
gcgtttanag atcctcnggg ccagctaccg accacttttg acaaggggnc taggagcgat 780
aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840
atggcncccc caaataantt gggaaaantn ggg                                     873

```

<210> 757

<211> 782

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(782)

<223> n=A,T,C or G

<400> 757

```

ggcccctcga gggatactct agagcgggccg ccgactagtg agctcgtcga cgatatcccg 60
ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120
atctgtgaag tggagaggcg ctttgggctt ctctgttggc atcagggtgc catacctagg 180
gcagctgtgg aagtgtcagc gtccctccctg agaggaactc ctgctccggg ggctcctcag 240
tccttccgtc agtatgctgt aaagcaccca catggtaatg ggtgnnggact ggtaccatga 300
ctgntccctt aaaaggtggc cttcccnnaag aaaggagaat tcttggacna gggatttcac 360
ttgnttagaa atgggaaaaa ttaccattta gaattttcgn ttccaaggcn tnaagnctta 420
aaaggccttt gattcccga ccttaaccct gggcagttaa ctttcaaac gggataaacc 480
ctgangggga aatnaaatc ctttaaaaaa ggggggggtt naaggagggc tctttggctt 540
tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600
aacctttact taaacnaacc cttgnccccc catttggggt tgactttcan cctaattgct 660
gaaaggaccg ggccgntttt gntttccttt gncccaaagg naaanaaac ggtgccantt 720
cccangggat tanttccga aaatttggnn aattttntt tgnaactttt tgggtttttt 780
cc                                     782

```

<210> 758

<211> 647

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 758

```

ntttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatnga 60
gggaagagcg ccgtcgggtcc gaggtagta tggagtagta tagtcttcgc gccttctcgg 120
gcggcggggc tattctctcc aaaggcagag gtccctagtc gacctcgctc ccctagggtta 180
ggaacagccg tcgaatatatt taggttcgtc gaggctttct tccgagctct acgcctaagt 240
agctccgcga gcaaagtatc ggtcattttc ccctatccat cactccccta agtacgcctc 300
attattccgg aaggcaagag gccagcattc ctccctagag tagagggtag gtacctccgt 360
cgcggtgccgc gaaagggcag agcttcgtgt ctccctccg cagcagctta acggtctacg 420
taggcgtttct cgatcttttc acgggaatcg gggcccgga gggcgcgga aaacgtcgac 480
gtctcggtca ccgtcaccgc cccgaacaac tagcggcttt ccgctttcaa ctgaggaacc 540
ccgcaccctt cattagcgct tacgaaatcg gggangtgat tgcgccaatt cgttagcctt 600
cgataattat tctctattag cggtcctatc tcgcgctttc gatttat 647

```

```

<210> 759
<211> 657
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(657)
<223> n=A,T,C or G

```

```

<400> 759
ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatnga 60
gggctctata gaaagcctct tgtctttaga tacgggcttt ctggtccttc gttctggaag 120
tgtagtagta ggtactgcgg gaaggcgaag agtcctttca aggacgattt acttaagttg 180
gcttattcta tagttccttc gggacataag gtcggtacga tctatactgc gtgggaagct 240
gatagggttg gacttaaggc gaataagaag gaggcgcgag aggtcgcgat taccgcagag 300
atattattta cggcgggccgc gggtagccgc ggtcatgcgg aaattttctg aggttcttgg 360
attcctaaga tcgctcccgt cgagtatact agcgacgaac gtaagagtgc cctcacaaga 420
accggtacaa actcaagaag aagttcccat taagcatcgt aagaaacggg aggacgagga 480
cggtagaag taatcggaga aaggatccta gtngttacga agaagcatcg ttnagctact 540
ttgcgctacc gtttatattt agacgtgttc cgtccttctc cgtgtttana aaaaaggttt 600
attccgacgg gagacttagg cgaatggagg gttccgcggg tganaatcgg ancgggg 657

```

```

<210> 760
<211> 644
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```

```

<400> 760
ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatgna 60
ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120
tacggacgtc gttaaccccc agtagcccc gtaagaaagg actaaagcga atggaaaagt 180
cggaattcc ggcgaggggg cggcgattac tgaaaggagt aagagtaaga ctattgcgat 240
acttgaggcg ttccctctta aaaggcaccg gaaacactct attaaaaaac acccgaagaa 300
gaacaactca tgcgatcggc cgtgtgcagc cgtcaatagt aaagagagcc atgaaccatg 360
ccatccttag accaattagg atgaagaaga ggaggaagat gaggacaaa ccctaccac 420
tcggaaaacc ccgcacgagc ctccgaacaa aatccgggaa ttaaaacggc ggccacttc 480

```



```

cgcactctcg tagcgcgagc cgaatagaaa accggaaaact acagctaaag ggtcctttcc 540
ggcctgttat ctaccacccc gcaatccgat cctccccccc cctcgtccaa aaaccctaac 600
ctctgcgga acattagagc agaaggagag ggcgatccct tgan 644

```

```

<210> 761
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G

```

```

<400> 761
ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatnga 60
ggcgggtact ctctgggata atcggtataa gtgttgtaaa attgggggta agagaaagt 120
tcattataag aagtggagc acgagccggg gtgtttagtc gttaatatta agaccggttt 180
ttgttgtagt tatatagctt gcgcgtggg aggcaataag aaacattgcg tttcgaggcc 240
ggatgcgggg aaccctcttc ggggtctaga gcgcgcgcatc tgcaaaataa ggactactga 300
cgccgctcat aacgtactca acaatgagtc ggctgcatt aagatttcg cgaagaaccg 360
tactgctct actgatagta tattgcattg atagcggcat gagctttatc acgtgtcgtt 420
ttcgggttgt aagaaggag ttaagtcgat ctctgaggaa gaagagacc caaataaaaa 480
atgactcaaa aaaacctaga agaaacacga cgaaaggaaa aagaacgta aaactagtag 540
ctcttcggan gagtagcctt agtagggtaa gtcctccgtg cgtactgtcc taaggtttgg 600
atagcgcggt tgaatagac gtcacgcgtc agaaggtaaa aanccgg 647

```

```

<210> 762
<211> 628
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(628)
<223> n=A,T,C or G

```

```

<400> 762
cattgtgttg gggtcactga gccactttt ttccagattt tttgtaaaat tgtttcgc 60
tgtgttcctt ttattcgctt gtattaatat ttgcgtagtg gattaaacaa atacttggtg 120
ttgactgtca gtcttagagg actgactaga agtagttttc atttggggct caggaaatac 180
ctactttata tttctagcta attaggaaag tcatttttca gttagggttg tgttttggtt 240
caggcactcg ctagctagat gacctaacat gctacttaat ttctgagtgt ttgtgtccat 300
ccctgtagga ttgttgcggg gttaaataaa attgtgtata tttgtaaagc atttacctca 360
gtgcccagac tgtgacagag tagattatta ggcttgctct tatttctgtg attaaattta 420
gtgtcagatt agcaacctat agctacttct aaagctgctg ctgctttctt tgtttagggt 480
taggaagaaa catgctggac agtttgccaa atgagagtta catgatgtgg cttgtgggaa 540
cattctaact tggaacttgc ccatttccag gactttgnng ttcanagatt tttggggata 600
gatgtaaggg ttaaaaaaaa cngaaaaac 628

```

```

<210> 763
<211> 147
<212> DNA
<213> Homo sapiens

```

<220>

<221> misc_feature

<222> (1)...(147)

<223> n=A,T,C or G

<400> 763

```
cattgtgttg gggcagagat aaataattcc tctgaaaagt gttttattgg aatttcaa 60
gaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120
ttttttttat gcacaccacc ttcnggc 147
```

<210> 764

<211> 146

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(146)

<223> n=A,T,C or G

<400> 764

```
cattgtgttg ggtatgtttt ttgaaggcag gtggacagga tttgctgatg ggtaaattggc 60
agagttaggg ggactgttag aacagagaaa ganatcatgg ggttgggttt gagtctgatg 120
nnnaactggt gccgnntgct cagtat 146
```

<210> 765

<211> 129

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(129)

<223> n=A,T,C or G

<400> 765

```
tncnctagtc gntnctagcg tntacactna tgtcttggtta ccgagctcgg atccactagt 60
ccagtgtggg nggaattcca ttgtgttggg gcaggaggng ctttgngtac ngtgcggcgt 120
nagaggcgg 129
```

<210> 766

<211> 175

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(175)

<223> n=A,T,C or G

<400> 766

```
cattgtgttg ggcctagtcc gaatactttt agtaacttca gacagatctc ctcatctctt 60
tctggggcctt ggnntttctc ctttgtanaa tgatgccttt ctgtggtttt gtcatttcta 120
```

acattctgtg ngtgatgagg tgtatatctg anganctcta tcnccanagt actct 175

<210> 767
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(602)
 <223> n=A,T,C or G

<400> 767
 nnnttttaaaa nctgtntctcc ccgcgggtggc ggccgctcta gaactagtgg atccttttcca 60
 cctggtttgt tttcagtgtt taatcctatt agtatcagca ggatataggt caggatatca 120
 ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtcccat 180
 aatgagttag agtacaaagt tcaagccctg ttgaggggtc gcattaaact ctcagaagta 240
 ttttagagtgt gccaggagcc gcgaagggtc ggttcgggtg gtggcgaggaa ctgtattaga 300
 gtgctaggca cggcgcgaca aagtctgtcc aacccaaaac ggtgctgagg cgttgggtgt 360
 gagctccagt actcagaaaa gcatctcagc aggtactcaa cagatcctca ggggcttggg 420
 ggcccagcac tggcagttag ggcatgaaag acataaaaagg gcactacctg tgggtatttt 480
 ctgtttctcca aggaggaagt agcaaaaatt aggacgtgg aatatcctat gttgtagcaa 540
 tcccagaaca actgatgctc aacaaatacc acacaaaaca aattttttta aatttaattct 600
 ta 602

<210> 768
 <211> 671
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(671)
 <223> n=A,T,C or G

<400> 768
 tccaccgcgg tggcgggcgc tctagactag tggatccact agtccagtgt ggggtgggaat 60
 tcgcggcncg cgtcgacaaa aatactgcta aagtaatatt tttatagatg actatttgcc 120
 ttggggccag gaaaagcagc tggagttatt cacttagtac catttttaca tactaacttt 180
 gccttttcca tgcttgcttg atgcggcttg cagcactgaa gaacagtttc aattgctagc 240
 caaccagaga gcatgatcaa accaaacaag ttccctgttt caggaaaaac aggttttagg 300
 taactgaagg gttaccagtt actgattcca caatcttctc tgtaaaanat ttctgcctat 360
 tatgcagact gggcggtctt aaanntggta aaactatnaa ataccatac aatattttta 420
 nggggccccn ttatnaagct tttcaggcct tcccctttcc atagcattgg tgggatacaa 480
 gaaaccttta aacagcaacn agctatcnag gcccaaaaagg aaagtaattn tgatttttta 540
 nagattccgn aacgaaaaaa tggctgggtt caaatacnac cttcttttta aaatggnttc 600
 cttattaaac nttttttttt ttttaatttta ccccatggtc ntgatnttng ngcttccgcc 660
 canaaaaatng n 671

<210> 769
 <211> 877
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(877)
 <223> n=A,T,C or G

<400> 769
 aaagctggag ctccccgcgg tggcggccgc tctagaacta gtggatccac tagtccanng 60
 ngggggaatt cgcgcccgcg tcgacctcta tacctttgnt catgcagctt cctctgactg 120
 ggttttgttct tcaattggct aacccctctt ttacttaagc acaccttgaa cattccctcc 180
 ttccccattt ccccgagng ccctaattgg acatacttct gaataacaca ggtgggtattc 240
 cttccttggt ggaacctcct ggaggaagag acagatgatt aacaaatcct tccatcaacc 300
 cctttgacca tgacatcaac agtgctccaa attatggggg accgtattag cctatgtcta 360
 tcttgatcag aatccttacc tcggtgtatt gaaattatct atttcgtgcc tgccctcttta 420
 aagtcagggt ttgccttata tattgtctaa caccatgcag taggtaacat gcagtaggaa 480
 acatggcatt aaattatttg ggttcaaate ccagttatgg tgtgtaaatt cctaccaggc 540
 cgtgaggcac ctgctaagca ggttgcaagc atcatttgaa ttcacaccac ccttttgcaa 600
 tagaacagat aggcaacaga ggctcatttg ggctaaagga tttgatggag gggaagtgcc 660
 aggattccca ccaaggcctc anggccaggg tccanggacc atgtctgttg tgacaactgg 720
 agtgcatttc atatccctn ctctgngggg naaggtccct cncgnggaga acnnttaaaa 780
 caatcatntc tngggggnnt aatgcttctt nccccagtgt ggtncactgc ngccacgagt 840
 cccanccact agtcccangt ctgtcatgaa ccancce 877

<210> 770
 <211> 874
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(874)
 <223> n=A,T,C or G

<400> 770
 ctggnctccc cgcggtggcg gccgctctag aactagtga tccactagtc cagtgtggtg 60
 gaattcgcgg ccgctcgac cttttcaaag gttacttat ttaattatca cannngcaac 120
 ccgatgagta ggtaacagta ttttactgat aggtaatcta aagaaggagg ctaaataaat 180
 tgcccaattt cgaacagtga gaggaagaat taggattgaa acacatatag tggcttcaga 240
 atctgtaacc ctacagatgc cactactact tctttcagaa taccctttgc ctatctattc 300
 tgttcctatg tcatcaaatt ataactactt taaaaagtat ttgtctttat tattttttaa 360
 aaaacacagg gaagtatttc tgatcagggg cagtattggt tctgaaagac aagccagtgt 420
 ttttgagggt ttctcccttg ccagtttttc tatgctgggt tattcaagtc ctaagaattg 480
 tgtagctatt acagaaccgc tttagcaaatt gtgttccatt aatcaagggt atttataaca 540
 aaatttcate caagtttgga gtgctctgaa aacatagcca aaatgttcgc aggggtctacc 600
 cctctcgtgt gtcccttttt tttagctatt tcagaagcac actggtgcaa tattttacga 660
 aatgagtttc ttccccttac ctctgcaccc tctaagaaaa aatcattgnt gttttatgaa 720
 natgaanate ctgctatttc atatcttgat tggagctgct taattaaatg accatttttna 780
 aattttgtttt gattccnngc aaaaaaagtt tntntttgga tgtagggggc tcnaaaagnc 840
 caaaaccccc caaaattttt nnttggaac ccna 874

<210> 771
 <211> 156
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(156)

<223> n=A,T,C or G

<400> 771

```

ttaaaaaanct ggnetccccg cgggtggcggc cgctctagaa ctagtggatc cactagtcca 60
gtgtggtgga attcgcggcc gcgtcgaccg cgagcggtcg cccttttttt ttttttttn 120
ngtttttttg aanaattcat tgggtattta ttattc 156

```

<210> 772

<211> 586

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(586)

<223> n=A,T,C or G

<400> 772

```

ncaanctggn ctccaccgcg gtggcgggcg ctctagacta gtggatccac tagtccagtg 60
tgggtggaatt cgcgggcgcg tcgatcacaa agtgctcaca agtcnngnat ttattttatc 120
tccagatatg aaacttaccc ccagctatgg tcttctatct gttatttaat ttctaggcca 180
atTTTTTcca cttgaatgtc agtattttta ttcaaagtca ccttgtccaa ataccaagtc 240
atcaacttac cctcaaatta tatcctcatt cagaaaatct acatctatta atggtagcta 300
ttttatccct gccccctgct ttttcttttt atatttaatt aatttgntca tccagcaaat 360
gcttattgag caggtattgt aggctaaaca attctanact ttaaggggac acagnttgca 420
aaacaaaatc ctgccttgna tggatactta tgnnatggng ggatacagac aatcaacata 480
atgangngca tcatatataa tggttagnan aatgataagg gnttttggga aaaaaatgca 540
cccanccaan anggattggg aagtggangg ganggtcang ggangg 586

```

<210> 773

<211> 2983

<212> DNA

<213> Homo sapiens

<400> 773

```

agagatagag tcttccttgg cattgcagga gagaatctga agggatgatg gatgcatcaa 60
aagagctgca agttctccac attgacttct tgaatcagga caacgccgtt tctcaccaca 120
catgggagtt ccaaacgagc agtcctgtgt tccggcgagg acaggtgttt cacctgcggc 180
tgggtgctgaa ccagccccta caatcctacc accaactgaa actggaattc agcacagggc 240
cgaatcctag catcgccaaa cacaccctgg tgggtgctga cccgaggacg ccctcagacc 300
actacaactg gcaggcaacc cttcaaaatg agtctggcaa agaggtcaca gtggctgtca 360
ccagttcccc caatgccatc ctgggcaagt accaactaaa cgtgaaaact ggaaaccaca 420
tccttaagtc tgaagaaaac atcctatacc ttctcttcaa cccatgggtg aaagaggaca 480
tggttttcat gcctgatgag gacgagcgca aagagtacat cctcaatgac acgggctgcc 540
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Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
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Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
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Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile
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Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
115 120 125

Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu
130 135 140

Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu
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Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys

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<213> Homo sapiens

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Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
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Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
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Ile	Gln	Phe	Glu	Thr	Leu	Gly	Lys	Lys	Gly	Lys	Tyr	Ile	Arg	Leu	Ser	100	105	110	
Cys	Asp	Thr	Asp	Ala	Glu	Ile	Leu	Tyr	Glu	Leu	Leu	Thr	Gln	His	Trp	115	120	125	
His	Leu	Lys	Thr	Pro	Asn	Leu	Val	Ile	Ser	Val	Thr	Gly	Gly	Ala	Lys	130	135	140	
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Ser	Arg	Ser	Ser	Glu	Glu	Asn	Ile	Val	Ala	Ile	Gly	Ile	Ala	Ala	Trp	195	200	205	
Gly	Met	Val	Ser	Asn	Arg	Asp	Thr	Leu	Ile	Arg	Asn	Cys	Asp	Ala	Glu	210	215	220	
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Leu	Tyr	Ile	Leu	Asp	Asn	Asn	His	Thr	His	Leu	Leu	Leu	Val	Asp	Asn	245	250	255	
Gly	Cys	His	Gly	His	Pro	Thr	Val	Glu	Ala	Lys	Leu	Arg	Asn	Gln	Leu	260	265	270	
Glu	Lys	His	Ile	Ser	Glu	Arg	Thr	Ile	Gln	Asp	Ser	Asn	Tyr	Gly	Gly	275	280	285	
Lys	Ile	Pro	Ile	Val	Cys	Phe	Ala	Gln	Gly	Gly	Gly	Lys	Glu	Thr	Leu	290	295	300	
Lys	Ala	Ile	Asn	Thr	Ser	Ile	Lys	Asn	Lys	Ile	Pro	Cys	Val	Val	Val	305	310	315	320
Glu	Gly	Ser	Gly	Arg	Ile	Ala	Asp	Val	Ile	Ala	Ser	Leu	Val	Glu	Val	325	330	335	
Glu	Asp	Ala	Pro	Thr	Ser	Ser	Ala	Val	Lys	Glu	Lys	Leu	Val	Arg	Phe	340	345	350	

Leu Pro Arg Thr Val Ser Arg Leu Ser Glu Glu Glu Thr Glu Ser Trp
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 Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn
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 Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu
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Trp Tyr Gly Glu Ile Ser Arg Asp Thr Lys Asn Trp Lys Ile Ile Leu
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Cys Leu Phe Ile Ile Pro Leu Val Gly Cys Gly Phe Val Ser Phe Arg
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Lys Lys Pro Val Asp Lys His Lys Lys Leu Leu Trp Tyr Tyr Val Ala
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Phe Phe Thr Ser Pro Phe Val Val Phe Ser Trp Asn Val Val Phe Tyr
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Ile Ala Phe Leu Leu Leu Phe Ala Tyr Val Leu Leu Met Asp Phe His
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 755 760 765

Leu Phe Cys Asp Glu Val Arg Gln Trp Tyr Val Asn Gly Val Asn Tyr
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Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu Phe Tyr Phe
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Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys Ser Ser Leu
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Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile Phe Thr Leu
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Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile
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Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr
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Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly
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Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys
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Pro Leu Cys Val Glu Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu
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Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
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Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
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Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
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Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
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Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
 115 120 125

His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
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Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
 145 150 155 160

Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
 165 170 175

Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
 180 185 190

Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
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Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
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Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro
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Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn
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Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu
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 Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val
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 325 330 335
 Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe
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 Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp
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 Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val
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 Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn
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 Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val
 530 535 540

Ser	Pro	Ile	Thr	Arg	His	Pro	Leu	Gln	Ala	Leu	Phe	Ile	Trp	Ala	Ile	545	550	555	560
Leu	Gln	Asn	Lys	Lys	Glu	Leu	Ser	Lys	Val	Ile	Trp	Glu	Gln	Thr	Arg	565	570	575	
Gly	Cys	Thr	Leu	Ala	Ala	Leu	Gly	Ala	Ser	Lys	Leu	Leu	Lys	Thr	Leu	580	585	590	
Ala	Lys	Val	Lys	Asn	Asp	Ile	Asn	Ala	Ala	Gly	Glu	Ser	Glu	Glu	Leu	595	600	605	
Ala	Asn	Glu	Tyr	Glu	Thr	Arg	Ala	Val	Glu	Leu	Phe	Thr	Glu	Cys	Tyr	610	615	620	
Ser	Ser	Asp	Glu	Asp	Leu	Ala	Glu	Gln	Leu	Leu	Val	Tyr	Ser	Cys	Glu	625	630	635	640
Ala	Trp	Gly	Gly	Ser	Asn	Cys	Leu	Glu	Leu	Ala	Val	Glu	Ala	Thr	Asp	645	650	655	
Gln	His	Phe	Ile	Ala	Gln	Pro	Gly	Val	Gln	Asn	Phe	Leu	Ser	Lys	Gln	660	665	670	
Trp	Tyr	Gly	Glu	Ile	Ser	Arg	Asp	Thr	Lys	Asn	Trp	Lys	Ile	Ile	Leu	675	680	685	
Cys	Leu	Phe	Ile	Ile	Pro	Leu	Val	Gly	Cys	Gly	Phe	Val	Ser	Phe	Arg	690	695	700	
Lys	Lys	Pro	Val	Asp	Lys	His	Lys	Lys	Leu	Leu	Trp	Tyr	Tyr	Val	Ala	705	710	715	720
Phe	Phe	Thr	Ser	Pro	Phe	Val	Val	Phe	Ser	Trp	Asn	Val	Val	Phe	Tyr	725	730	735	
Ile	Ala	Phe	Leu	Leu	Leu	Phe	Ala	Tyr	Val	Leu	Leu	Met	Asp	Phe	His	740	745	750	
Ser	Val	Pro	His	Pro	Pro	Glu	Leu	Val	Leu	Tyr	Ser	Leu	Val	Phe	Val	755	760	765	
Leu	Phe	Cys	Asp	Glu	Val	Arg	Gln	Trp	Tyr	Val	Asn	Gly	Val	Asn	Tyr	770	775	780	
Phe	Thr	Asp	Leu	Trp	Asn	Val	Met	Asp	Thr	Leu	Gly	Leu	Phe	Tyr	Phe	785	790	795	800
Ile	Ala	Gly	Ile	Val	Phe	Arg	Leu	His	Ser	Ser	Asn	Lys	Ser	Ser	Leu	805	810	815	
Tyr	Ser	Gly	Arg	Val	Ile	Phe	Cys	Leu	Asp	Tyr	Ile	Ile	Phe	Thr	Leu	820	825	830	

Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile
 835 840 845
 Ile Met Leu Gln Arg Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu
 850 855 860
 Phe Ala Xaa Trp Met Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu
 865 870 875 880
 Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr
 885 890 895
 Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly
 900 905 910
 Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys
 915 920 925
 Pro Leu Cys Val Glu Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu
 930 935 940
 Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile
 945 950 955 960
 Leu Leu Val Asn Leu Leu Val Ala Met Phe Gly Tyr Thr Val Gly Thr
 965 970 975
 Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu
 980 985 990
 Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro Phe Ile Val
 995 1000 1005
 Phe Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys Cys Cys Cys
 1010 1015 1020
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